

**E - New or Revised Program/Degree/Major Revised
8/19 : Entry # 3289****Today's Date**

02/10/2024

Your Name

Jenny Sharpe

Your Emailjsharp1@highpoint.edu**Are you a department chair?**

No

Department Chair Name

Rob Harger

Dept Chair Emailrharger@highpoint.edu**By checking below, I certify that my department chair was notified and approved moving forward with this proposal.**

Yes

Please select the appropriate school to oversee this proposal:

Engineering

When will this program / degree / major go into effect?

Fall 2024

Please choose a category for this proposal.

Major - Revise

Are you also revising the corresponding minor?

No

Please provide a 200-word summary of the proposed school / program / degree / major.

We are proposing one substantive (credit-hour) to the Mathematical Economics major as well as one minor change. Currently, students are required to take both MTH 2310 (Linear Algebra) and MTH 2410 (Calculus III). The proposed change is to instead require that students take MTH 2350 (Math for Data Analytics). This reduces the total number of credits by 4. The minor change is to replace one required STS course, due to a removed course.

List of Required Courses

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Course (Prefix and Number)	NEW or EXISTING?	Revisions needed for an existing course (if necessary)
ACC 2010	Existing	
ECO 2050	Existing	
ECO 3030	Existing	
ECO 3050	Existing	
MTH 1410	Existing	
MTH 1420	Existing	
MTH 2350	Existing	
STS 2610 or STS 2910	Existing	
STS 3110	Existing	

List of Elective Courses

Course (Prefix and Number)	NEW or EXISTING?	Revisions needed for an existing course (if necessary)
Two ECO electives at the 3000 level or above OR MTH 4910 and one ECO elective at the 3000 level or above	Existing	

Please upload a file showing the current course requirements (preferably from the Undergraduate Bulletin)

- [Mth-Eco-2024-Proposed-Updates.pdf](#)

Overlap with existing school / program / degree / major?

There is some overlapping mathematics and/or statistics content in the Mathematical Economics major with other majors in the Department of Mathematics Science (math, actuarial science, and data analytics and statistics). There is also economics overlap with the newly approved proposal from the School of Business in Economics and Business analytics.

What is the rationale for the new school / program / degree / major?

The rationale for the change is to decrease the overall credit hours and allow flexibility in the math requirements (by allowing MTH 2350 instead of both MTH 2310 and MTH 2410). Note that, as we do in our Data Analytics and Statistics major, if students wish to still take both of these courses instead, we will allow it.

The change from STS 3210 to STS 3110 is happening department-wide. STS 3210 is being removed and only STS 3110 will remain. These courses have had increasing overlap in recent years, and it was determined STS 3210 would be the one to be removed.

What academic divisions, University officers, programs, or other stakeholders are involved in, or affected by, this proposal?

The Phillips School of Business shares many courses in this major. As such, we consulted with them on this change, though no ECO courses were changed. Their support is attached.

Please attach documentation showing support from key stakeholders, if any.

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- [PSB-Support-for-MTHECO-Updates-2024.pdf](#)

What types of students are expected to enroll in this program or pursue this degree/major? Please provide projected enrollment.

We expect the only possible change to be more flexibility for students.

Consistency of Mission and Quality

The mission of the School of Engineering is:

To provide an extraordinary engineering, computing, and mathematical education through the delivery of hands-on, practical instruction that prepares graduates for a rewarding career or admission into graduate school.

The Mathematical Economics major provides students with deep coursework in both mathematical sciences and economics, preparing students for careers in economics, mathematics, or graduate school in economics.

Timeline

This can be implemented immediately.

Assessment Strategy

We already have a robust assessment strategy in place. The revision will mean that we assess MTH 2310 instead of MTH 2310 for this major.

Please attach full proposal and any supporting documents/reports.

- [Mth-Eco-2024-Proposed-Updates1.pdf](#)

For Deans:

Does this proposal connect solely to programs in your school (Intra-Collegiate), or does it have connections to broader university programs and requirements (Inter-Collegiate)? Note that all proposals connected to University Academic Programs or within the General Education should be considered Inter-Collegiate proposals.

Inter-collegiate

Is this proposal consistent with the school and university mission?

Yes

Comments justifying this determination?

The changes are consistent with the mission of providing relevant education to our students.

Are necessary resources available to support this proposal?

Yes

Comments justifying this determination?

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The proposed changes reduce the credit hour requirement and actually free up resources.

[DEAN] I approve/deny this proposal for further advancement

Approve

Today's Date (REQUIRED)

02/12/2024

For School EPC:

Is this proposal consistent with the school and university mission?

Yes

[SCHOOL EPC] I approve/deny this proposal for further advancement

Approve

Today's Date (REQUIRED)

03/07/2024

For APIRC:

Is this proposal consistent with the history and mission of the university?

Yes

Does this proposal reflect a course that is rigorous, current, and reflects best practices and highest academic standards?

Yes

[APIRC] This committee approves/denies advancement of this proposal

Approve

Today's Date (REQUIRED)

04/19/2024