

C - Small Curricular Revisions : Entry # 3040**Today's Date**

09/17/2023

Your Name

Daniel Hall

Your Email:dhall@highpoint.edu**Department Chair Name**

Dr. Gerald Fox

Email address of your department chairjfox@highpoint.edu

By checking below I am certifying that my department chair (named above) has seen and approved the courses that are included in this proposal.

Yes

Please select the appropriate school overseeing this proposal:Proposal affects **Full University** or **multiple Schools****Which schools does this affect?**

- Business
- Engineering

Does this proposal correspond to a particular term?

AY 2024-25 and forward

Which category does this change fall under?

- Distribution requirements - major

Name of Major or Minor that you are revising distribution requirements for:

International Business

Distribution Requirement Changes**What is being changed?**

No longer requiring a specific course (MTH 1310) to satisfy Quantitative Reasoning requirement

Rationale for change (brief)

Offering more choices for meeting the Quantitative Reasoning requirement will lead to better Quantitative Reasoning in business because students will spend more time learning the skills they will use more often.

C - Small Curricular Revisions : Entry # 3040**Rationale for above changes**

The calculus and linear algebra emphasized in the second half of MTH 1310 is only used in a small handful of business electives. The depth of using these tools is minimal, so the math skill can be taught to the students as they learn the applicable material for these courses.

We think offering more choices for meeting the Quantitative Reasoning requirement will lead to better Quantitative Reasoning in business because students will spend more time learning the skills they will use more often. We also feel that by giving these select business majors more choices to meet their Quantitative Reasoning requirements, then this frees up the student to take Math/Statistics courses that may better fit their chosen major and/or career path. For example, we have a proposed Business Analytics and Economics major where STS 1600 Introduction to Data would better serve students in this major as opposed to MTH 1310. The business school is large enough to where the Mathematical Sciences department could eventually create/revise courses with tailored relevance to specific majors.

MTH 1310 is currently a prerequisite for STS 2610 only because 'Business' is in the title of both courses and because students need some quantitative reasoning experience and maturity to be successful in STS 2610. STS 2610 (or STS 2910) is still required of all business majors, so every business student will still take two math courses whereas most non-business majors only take one. The Mathematical Sciences Department will soon let any course that meets the Quantitative Reasoning requirements meet the prerequisite for STS 2610.

Finally, we want to add the ability for students to switch into the business majors of Business Administration, Entrepreneurship, and International Business or transfer from other schools who may not have taken MTH-1310 (or its transfer equivalent). They do not need this specific course to be successful in business.

Some may be concerned about MTH-1310 alternatives being less rigorous than MTH-1310, but relevance is also important. If the rigor is truly important, then we will see this in the performance differences between our students taking business majors that still require MTH-1310. We will pay attention to this data. Our mission is to prepare students to become tomorrow's business professionals. We feel that math courses that are rigorous enough for all other majors and more relevant for some business majors is a step towards this mission.

Does this change affect any other departments, schools, or programs besides your own? If so, please describe your consultation process with affected parties.

I have had meetings with Dr. Harger (Interim Chair of Mathematical Sciences) and his department has discussed these changes and support this relaxation because they will still be offering a section to satisfy the Quantitative Reasoning requirement and all business majors will continue to require STS 2610 or 2910.

For STS 2610 and STS 2910, the Mathematical Sciences department will simply change the prerequisite of MTH 1310 or 1410 to completion of any Quantitative Reasoning course prior to enrollment.

These changes are also supported by the Dean of Engineering.

Dean Review**[DEAN] I approve/deny this proposal**

Approve

Today's Date

09-18-2023

Name of Dean (if this is being reviewed by multiple deans, please indicate who approved it first here)

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Daniel Hall, Dean of Phillips School of Business

Comments

Approved: Michael Oudshoorn, Dean, School of Engineering, 9/22/2023

Note: Proposal was reviewed by APIRC after a faculty concern form was submitted regarding the removal of MTH 1310 from the major. Proposal was revised to address the concern and approved by APIRC on 11/03/2023.