

B - Course Revision Form V. 7.2022 : Entry # 3530**DEAN Decision**

Approved

Today's Date

09/08/2025

EPC Decision

Approved

Today's Date

10/17/2025

Begin Form**Today's Date**

09/07/2025

Your Name

Brielle Spencer-Tyree

Your Email:btyree@highpoint.edu**Are you a Department Chair?**

No

Department Chair Name

Jenny Sharpe

Email address of your Department Chairjsharpe1@highpoint.edu**By checking below, I certify that my department chair has seen and approved the course revisions that are in this proposal**

Yes

Please select the appropriate school overseeing this proposal:

Engineering

When should this proposal take effect?

Fall 2026

Are you submitting multiple courses for revision from the same department?

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No, just one

Please list all of the courses that you are submitting revisions for:

Course Prefix	Course Number	Course Title
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MTH	1310	Applied Mathematical Models and Concepts for Business
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What would you like to revise?

- Learning Outcomes

Gen Ed & Academic Program Information

Is this a revision to meet new Gen Ed requirements?

No

Is this course part of an academic program?

- This course does not currently fulfill academic program requirements

Does this course, as revised, include any community engagement?

No

Is this course part of GoGlobal?

No

Does this course count towards a major or a minor?

No, it does not count toward any particular major or minor

Is this course cross listed?

No

Choose the department designator for your course from the list below.

Curriculum Review Information

Please list the revised student learning outcomes for this course in the box below.

1. Solve systems of two linear equations graphically and algebraically.
2. Translate word problems into a system of linear equations.
3. Use matrices to solve systems of linear equations.
4. Interpret information from matrices and use it to explain solutions to word problems.

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5. Use and interpret functions represented graphically, numerically, symbolically, or verbally.
6. Identify, construct, analyze, and interpret linear, quadratic, exponential, and logarithmic models in real-world applications
7. Perform regression to determine a model that best-fits the data and make appropriate predictions
8. Describe the meaning of the derivative in terms of a rate of change and local linear approximation.
9. Compute basic derivatives by hand.
10. Use derivatives to solve application problems involving marginal functions and optimization.
11. Describe the meaning of the definite integral in terms of area and net change.
12. Compute basic integrals by hand.
13. Use integration to solve application problems.
14. Communicate mathematical concepts/outcomes by writing clear solutions to problems.
15. Use technology to help solve problems, experiment, interpret results, and support conclusions.
16. Use quantitative methods to solve problems in a variety of contexts, including real world applications. **GE Quantitative Learning Outcome

Please list any revisions to units or content areas that will be required for all sections of this course in the box below.

None

If you have Gen Ed learning outcomes, please address the kinds of assessments you may use for each area that you are proposing the course be designated (i.e., Arts, Humanities, Diversity, etc.)

Use quantitative methods to solve problems in a variety of contexts, including real world applications. **GE Quantitative Learning Outcome

Every assessment in this course (e.g. homework, quizzes, projects, tests, and final exam) will assess this general education learning outcome.

Please list any revisions to course policies that will be required for all sections of this course.

None

If you would like to specify any revisions to requirements for how contact hours must be met for all sections of this course, please indicate below (e.g., if any experiential learning activities will replace seat time)

None

If this course proposal affects any other departments, please describe the consultation and approval that you've received and from whom in the box below.

Department Chair, Jenny Sharpe, emailed the Deans of the School of Business and School of Entrepreneurship to consult and get approval from both. They both approved the changes to these learning outcomes.
See attached PDF for the email thread of this communication.

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These are subtle changes to the wording of several learning outcomes to better articulate the concept coverage. Two new learning outcomes were added to further emphasize the coverage of functions, modeling data, interpreting those models that the department felt was lacking in the previous learning outcomes.

Sample Syllabus

- [MTH 1310 SampleSyllabus.doc](#)

Additional Files

- [Updated-learning-outcomes-MTH-1310.pdf](#)