## B - Course Revision Form V. 7.2022 : Entry # 3542

**DEAN Decision**

Approved

**Today's Date**

09/14/2025

**EPC Decision**

Approved

**Today's Date**

10/17/2025

## Begin Form

**Today's Date**

09/08/2025

**Your Name**

Jenny Sharpe

**Your Email:**

jsharpe1@highpoint.edu

**Are you a Department Chair?**

Yes

**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?**

No, just one

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

| Course Prefix | Course Number | Course Title |
|---|---|---|
| MTH | 1420 | Calculus II |

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**What would you like to revise?**

- Learning Outcomes

**Are you also revising any of the following for this course?**

- Change course description

## 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?**

Yes

**Please list the course(s) and whether they are required or electives for the major/minor.**

| Course Prefix/Number | Name of Major and/or Minor? | Required or Elective? |
|---|---|---|
| MTH 1420 | Math, actuarial science, mathematical economics, data analytics and statistics, physics, chemistry, biochemistry | Required |
| MTH 1420 | Computer science | Elective |

**Is this course cross listed?**

No

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

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## Curriculum Review Information

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

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Updated Learning Outcomes:
1. Students should understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change.
2. Students should understand the relationship between the derivative and the definite integral as expressed in both parts of the Fundamental Theorem of Calculus.
3. Students should be able to model a written description of a physical situation with a function, a differential equation, or an integral.
4. Students should understand the concept of an infinite series and use a variety of tests to determine its convergence or divergence.
5. Students should be able to effectively communicate mathematics by writing solutions to problems.
6. Students should be able to use technology to help solve problems, experiment, interpret results, and support conclusions.

Updated course description:
Integration: techniques and applications to geometry, physics, economics, and probability. Sequences, series, power series, Taylor's Theorem, and elementary differential equations. Prerequisite: MTH 1410 with a grade of C- or higher.

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

This course will no longer include an introduction to surfaces in space, nor polar, cylindrical, spherical coordinates. References to these items have been removed in the learning outcomes and the course description. (These topics are covered in Calculus III.) Otherwise, the LOs and description are unchanged.

**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)**

This course meets full seat time.

**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.**

This was agreed to by relevant parties (physics, engineering, and math) in late Fall 2024, but this was after the deadline for Fall 2025 curricular changes.

**Sample Syllabus**

- MTH-1420-Sample-Syllabus.pdf