

C - Small Curricular Revisions : Entry # 3560

Today's Date

09/11/2025

Your Name

Brian Bernard

Your Email:

bbernard@highpoint.edu

Department Chair Name

Brian Bernard

Email address of your department chair

bbernard@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:

Engineering

Does this proposal correspond to a particular term?

no

Course Prefix, Number, & Name

MME 2100 Statics, MME 2200 Dynamics, MME 3100 Thermodynamics, MME 3150 Heat Transfer, MME 3200 Fluid Mechanics, MME 4100 Machine Components, MME 4500 Robotics

Does this course currently count towards Gen Ed curriculum?

No

Which category does this change fall under?

- Course prerequisite(s)

Course Prerequisite Changes

Course Prefix & Number	Current Prerequisite(s)	Proposed Prerequisite(s)
MME 2100	MTH 1420 or MTH 1425	MTH 1410
MME 2200	MME 2100, PHY 2010, either MTH 1420 or MTH 1425	MME 2100, PHY 2010
MME 3100	MME 2100, MME 2200	MME 2100, PHY 2010, CHM 1010
MME 3150	MME 3100, MME 3200	MME 3100, MME 3200, MTH 2050

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Course Prefix & Number	Current Prerequisite(s)	Proposed Prerequisite(s)
MME 3200	MTH 2050, PHY 2020, MME 1015	MME2100, PHY 2010, MTH 2410
MME 4100	MME 1010, MME 1015, MME 2300, MTH 2150	MME 1010, MME 2300, MTH 2050
MME 4500	MME 1015, MME 3300, CSC 1720, MTH 2310 or STS 3005	MME 3300, CSC 1720, ECE 2610

Rationale for above changes

MME 2100 Statics: Lower prereq from Calc 2 to Calc 1 to make it easier for a student who begins with Precalc in Fall of freshman year to stay on track. Course content does not require calc 2.

MME 2200 Dynamics: course content does not require Calc 2.

MME 3100 Thermodynamics: Course content does not build on Dynamics. It actually follows the science classes Physics and Chemistry instead.

MME 3150 Heat Transfer: Added a math prerequisite to ensure students have seen differential equations before this course.

MME 3200 Fluid Mechanics: Physics 1 is the more appropriate prereq (forces, buoyancy), than physics 2 (electricity and magnetism). For math, Calc 3 (vector fields) is more appropriate than differential equations. Engineering, Statics (forces) is more appropriate than Matlab.

MME 4100 Design and Analysis of Machine Components: Changed the math to Differential Equations instead of Calc 3, since this course will study Finite Element Method. Removed Matlab prereq.

MME 4500 Robotics: Changed this interdisciplinary course to 1 MME prereq, 1 CSC prereq, and 1 ECE prereq.

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

No affect on any other departments.

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

Approve

Today's Date

14-09-2025

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

Michael Oudshoorn