**TO:** The Faculty of the College of Engineering

**FROM:** The Faculty of the School of Mechanical Engineering

**RE:** ME 20000 Thermodynamics I

The Faculty of the School of Mechanical Engineering has approved the following change in ME 20000. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**From:**

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| Prerequisites:  (Undergraduate level ENGR 13000 Minimum Grade of C- or Undergraduate level ENGR 13100 Minimum Grade of C- or Undergraduate level ENGR 16100 Minimum Grade of C- or Undergraduate level ENGR 19600 Minimum Grade of C- or Undergraduate level EPCS 11100 Minimum Grade of C- or Undergraduate level ME 22501 Minimum Grade of C- [may be taken concurrently] or Undergraduate level VIP 17920 Minimum Grade of C-) and (Undergraduate level MA 16200 Minimum Grade of C- or Undergraduate level MA 16600 Minimum Grade of C- or Undergraduate level MATH 16600 Minimum Grade of C- or Undergraduate level MATH 26100 Minimum Grade of C- [may be taken concurrently]) and (Undergraduate level CHEM C1050 Minimum Grade of C- [may be taken concurrently] or (Undergraduate level CHM 11100 Minimum Grade of C- and Undergraduate level CHM 11200 Minimum Grade of C-) or Undergraduate level CHM 11500 Minimum Grade of C- or (Undergraduate level CHM 11510 Minimum Grade of C- and (Undergraduate level CHM 11520 Minimum Grade of C- or Undergraduate level CHM 11530 Minimum Grade of C-) ) or Undergraduate level CHM 12300 Minimum Grade of C-) |
| **To:**  Prerequisites:  (Undergraduate level ENGR 13000 Minimum Grade of C- or Undergraduate level ENGR 13100 Minimum Grade of C- or Undergraduate level ENGR 16100 Minimum Grade of C- or Undergraduate level ENGR 19600 Minimum Grade of C- or Undergraduate level EPCS 11100 Minimum Grade of C- or Undergraduate level ME 22501 Minimum Grade of C- [may be taken concurrently] or Undergraduate level VIP 17920 Minimum Grade of C- or ((Undergraduate level VIP 17911 Minimum Grade of C-) and (Undergraduate level VIP 17912 Minimum Grade of C-)) )  and  (Undergraduate level MA 16200 Minimum Grade of C- or Undergraduate level MA 16600 Minimum Grade of C- or Undergraduate level MATH 16600 Minimum Grade of C- or Undergraduate level MATH 26100 Minimum Grade of C- [may be taken concurrently])  and  (Undergraduate level CHEM C1050 Minimum Grade of C- [may be taken concurrently] or (Undergraduate level CHM 11100 Minimum Grade of C- and Undergraduate level CHM 11200 Minimum Grade of C-) or Undergraduate level CHM 11500 Minimum Grade of C- or (Undergraduate level CHM 11510 Minimum Grade of C- and (Undergraduate level CHM 11520 Minimum Grade of C- or Undergraduate level CHM 11530 Minimum Grade of C-) ) or Undergraduate level CHM 12300 Minimum Grade of C-)  and  (Undergraduate level PHYS 17200 Minimum Grade of C-) |
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**Reason:** The requirements are updated to make them consistent with the FYE requirements: <https://engineering.purdue.edu/ENE/Academics/Undergrad/FYE/FYEReqs>. Additionally, the ME faculty have observed that students without a foundation of basic physics principles struggle in ME 20000. Since PHYS 17200 is already required for the BSME curriculum, making it a prerequisite for ME 20000 would ensure that students first build a foundation in key topics such as energy, and become familiar with the Purdue academic environment before beginning the core ME course, Thermodynamics I.

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Jitesh Panchal

Associate Head for Undergraduate Studies

Professor of Mechanical Engineering