

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

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

**RE:** Updates to Prerequisites for ME 200, ME 30800, ME 36500, ME 37500, ME 31500, ME 35400, and ME 46300

The Faculty of the School of Mechanical Engineering has approved the following updates to the prerequisites for ME core courses. his action is now submitted to the Engineering Faculty with a recommendation for approval.

**Background:** The School of Mechanical Engineering has recently adopted a new Math course sequence, which replaces MA 26200 (Linear Algebra and Diff. Eq.) + MA 30300 (Partial Diff. Eqns.) with MA 265 (Linear Algebra) + MA 266 (Ordinary Differential Equations) + ME 23900 (Intro to Data Science for ME). Additionally, the design-manufacturing sequence has been updated to include two new courses: ME 26400 (Introduction to Manufacturing for Design) and ME 364 (Systematic Engineering Design). These courses replace the current ME 263 (ME Design Innovation and Entrp.) and one ME elective. Finally, the prerequisite for ME 200 is updated to reflect the changes in CHM 115.

To accommodate these changes, we request updates to the prerequisites as follows:

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#### **ME 30800 Fluid Mechanics**

##### From

(Undergraduate level ME 20000 Minimum Grade of D- and Undergraduate level ME 26300 Minimum Grade of D- and Undergraduate level ME 27400 Minimum Grade of D-) and (Undergraduate level MA 26200 Minimum Grade of C- or (Undergraduate level MA 26500 Minimum Grade of C- and Undergraduate level MA 26600 Minimum Grade of C-) or (Undergraduate level MA 35000 Minimum Grade of C- and Undergraduate level MA 36000 Minimum Grade of C-))

##### To

(Undergraduate level ME 20000 Minimum Grade of D- and (Undergraduate level ME 26300 Minimum Grade of D- or Undergraduate level ME 26400 Minimum Grade of D-) and Undergraduate level ME 27400 Minimum Grade of D-) and (Undergraduate level MA 26200 Minimum Grade of C- or (Undergraduate level MA 26500 Minimum Grade of C- and Undergraduate level MA 26600 Minimum Grade of C-) or (Undergraduate level MA 35000 Minimum Grade of C- and Undergraduate level MA 36000 Minimum Grade of C-))

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#### **ME 36500 Measure Control Systems I**

##### From

(Undergraduate level ECE 20001 Minimum Grade of D- or Undergraduate level EE 20100 Minimum Grade of D-) and (Undergraduate level ME 27400 Minimum Grade of D- or Undergraduate level ME 27500 Minimum Grade of D- or Undergraduate level CE 29800 Minimum Grade of D-) and Undergraduate level MA 26200 Minimum Grade of C- or (Undergraduate level MA 26500 Minimum Grade of C- and Undergraduate level MA 26600 Minimum Grade of C-) or (Undergraduate level MA 35000 Minimum Grade of C- and Undergraduate level MA 36000 Minimum Grade of C-) and (Undergraduate level ECE 20007 Minimum Grade of D- or Undergraduate level EE 20700 Minimum Grade of D-) and (Undergraduate level PHYS 24100 Minimum Grade of D- or Undergraduate level PHYS 27200 Minimum Grade of D-)

##### To

(Undergraduate level ECE 20001 Minimum Grade of D- or Undergraduate level EE 20100 Minimum Grade of D-) and (Undergraduate level ME 27400 Minimum Grade of D- or Undergraduate level ME 27500 Minimum Grade of D- or Undergraduate level CE 29800 Minimum Grade of D-) and (Undergraduate level MA 26200 Minimum Grade of C- or (Undergraduate level MA 265 Minimum Grade of C- and Undergraduate level MA 26600 Minimum Grade of C-) or (Undergraduate level MA 35000 Minimum Grade of C- and Undergraduate level MA 36000 Minimum Grade of C-) and (Undergraduate level ECE 20007 Minimum Grade of D- or Undergraduate level EE 20700 Minimum Grade of D-) and (Undergraduate level PHYS 24100 Minimum Grade of D- or Undergraduate level PHYS 27200 Minimum Grade of D-) and (Undergraduate level MA 26500 [may be taken Concurrently])

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**ME 37500 Measure Control Systems II****From**

Undergraduate level ME 36500 Minimum Grade of D- and (Undergraduate level MA 30300 Minimum Grade of D- or Undergraduate level MA 30400 Minimum Grade of D- or Undergraduate level MA 30200 Minimum Grade of D-)

**To**

Undergraduate level ME 36500 Minimum Grade of D- and (Undergraduate level MA 30300 Minimum Grade of D- or Undergraduate level MA 30400 Minimum Grade of D- or Undergraduate level MA 30200 Minimum Grade of D- or **(Undergraduate level MA 26500 Minimum Grade of C- and Undergraduate level MA 26600 Minimum Grade of C-)**)

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**ME 31500 Heat And Mass Transfer****From**

Undergraduate level ME 30800 Minimum Grade of D- and Undergraduate level ME 30801 Minimum Grade of D- [may be taken concurrently] and Undergraduate level ME 36500 Minimum Grade of D- and (Undergraduate level MA 30300 Minimum Grade of D- or Undergraduate level MA 30200 Minimum Grade of D- or Undergraduate level MA 30400 Minimum Grade of D-)

**To**

Undergraduate level ME 30800 Minimum Grade of D- and Undergraduate level ME 30801 Minimum Grade of D- [may be taken concurrently] and Undergraduate level ME 36500 Minimum Grade of D- and (Undergraduate level MA 30300 Minimum Grade of D- or Undergraduate level MA 30200 Minimum Grade of D- or Undergraduate level MA 30400 Minimum Grade of D- or **(Undergraduate level MA 26500 Minimum Grade of C- and Undergraduate level MA 26600 Minimum Grade of C-)**)

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**ME 35400 Machine Design****From**

(Undergraduate level ME 26300 Minimum Grade of D- or Undergraduate level ME 26201 Minimum Grade of D-) and Undergraduate level ME 27400 Minimum Grade of D- and (Undergraduate level ME 32300 Minimum Grade of D- or Undergraduate level ME 27200 Minimum Grade of D-)

**To**

(Undergraduate level ME 26300 Minimum Grade of D- or Undergraduate level **ME 26400** Minimum Grade of D-) and Undergraduate level ME 27400 Minimum Grade of D- and (Undergraduate level ME 32300 Minimum Grade of D- or Undergraduate level ME 27200 Minimum Grade of D-)

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**ME 46300 Engineering Design****From**

Undergraduate level ME 31500 Minimum Grade of D- and Undergraduate level ME 35400 Minimum Grade of D- and Undergraduate level ME 37500 Minimum Grade of D-

**To**

Undergraduate level ME 31500 Minimum Grade of D- and Undergraduate level ME 35400 Minimum Grade of D- **and Undergraduate level ME 36400 Minimum Grade of D-** and Undergraduate level ME 37500 Minimum Grade of D-

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**ME 200 Thermodynamics I****From**

(Undergraduate level ENGR 13100 Minimum Grade of C- or Undergraduate level ENGR 16100 Minimum Grade of C- or Undergraduate level ENGR 13000 Minimum Grade of C- or Undergraduate level EPCS 11100 Minimum Grade of C- or Undergraduate level VIP 17920 Minimum Grade of C- or Undergraduate level ENGR 19600 Minimum Grade of C- or Undergraduate level ME 22501 Minimum Grade of C- [may be taken concurrently]) 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 CHM 11500 Minimum Grade of C- or Undergraduate level CHM 12300 Minimum Grade of C- or 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-))

To

(Undergraduate level ENGR 13100 Minimum Grade of C- or Undergraduate level ENGR 16100 Minimum Grade of C- or Undergraduate level ENGR 13000 Minimum Grade of C- or Undergraduate level EPCS 11100 Minimum Grade of C- or Undergraduate level VIP 17920 Minimum Grade of C- or Undergraduate level ENGR 19600 Minimum Grade of C- or Undergraduate level ME 22501 Minimum Grade of C- [may be taken concurrently]) 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 CHM 11500 Minimum Grade of C- or Undergraduate level CHM 12300 Minimum Grade of C- or 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 (CHM 11510 Minimum Grade of C- AND (CHM 11520 OR CHM 11530)) )



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