

TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Mechanical Engineering
RE: MSPE 47200 Vehicle Dynamics -- Change in requisite and description

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

From:

Prerequisites:

ME 27000 Basic Mechanics I

ME 27400 Basic Mechanics II

To:

Prerequisites:

ME 27400 Basic Mechanics II

MSPE 29800 Programming and Computer Modeling for Motorsports

Reason: ME 27000 Basic Mechanics I is a prerequisite for ME 27400 Basic Mechanics II therefore listing both creates an unnecessary redundancy in the requirements of the class. Adding MSPE 29800 Programming and Computer Modeling for Motorsports allows faculty to utilize the skills taught in the MSPE 29800 to emphasize and reinforce the learning outcomes in MSPE 472 Vehicle Dynamics.

From:

Course Description:

This course develops students understanding in the mathematical model development of the motorsport's vehicle. Students will utilize these models to understand how key vehicle parameters influence vehicle performance in the longitudinal and lateral direction. **Credits:** 3.00

To:

Course Description:

Analytical and mathematical model development of the automotive and motorsports vehicles to understand how key vehicle parameters influence vehicle performance. Areas of focus include rectilinear motion, lateral motion, suspension kinematics, tire dynamics and drivetrain modeling. Credits: 3.00

Reason: The new course description better aligns the evolution of the learning outcomes of the course to the feedback from alumni, industry partners, and members of the motorsports Industry Advisory Board.



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School of Mechanical Engineering