

Course Requisite Change EFD Template



College of Engineering

Engineering Faculty Document No.:

EFD# 56-26

October 15, 2025

TO: The Engineering Faculty

FROM: The Faculty of the School of Mechanical Engineering

RE: Requisite Changes to ME 54855 Motorsport Vehicle Simulations

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

Description Change for ME 54855 Motorsport Vehicle Simulations:

Change reflected by **red** text below

From:

Credit Hours: 3.00. A course on mathematical modeling and computer simulation of mechanical systems offering a complete tool for modeling and simulation of integrated and complex systems for use within automotive and motorsports applications. Complex multi-disciplinary systems modeling and analysis problems will be solved, using a modeling and simulation environment for complex systems analysis such as Dymola's Modelica simulation technology. Dymola is a complete environment for model creation, testing, simulation and post-processing. Equal emphasis is placed on model development and simulation via Dymola GUI interface. Models range from simple spring-mass-damper system to whole vehicle models will be covered.

To:

Credit Hours: 3.00. A course on mathematical modeling and computer simulation of mechanical systems offering a complete tool for modeling and simulation of integrated and complex systems for use within automotive and motorsports applications. Complex multi-disciplinary systems modeling and analysis problems will be solved, using a modeling and simulation environment for complex systems analysis such as Dymola's Modelica simulation technology. Dymola is a complete environment for model creation, testing, simulation and post-processing. Equal emphasis is placed on model development and simulation via Dymola GUI interface. Models range from simple spring-mass-damper system to whole vehicle models **will be covered**.

Requisite Change for ME 54855 Motorsport Vehicle Simulations

FROM:

None

TO:

Requisites: MSPE 47200 or ME 54255

Registration Restriction Change for ME 54855 Motorsport Vehicle Simulations

FROM:

None

TO:

MSPE-BSMTE, ME-MEME-MSPE or department approval

RATIONALE:

The updates above more accurately reflect the course and background needed to be successful in the course.



Dr. Eckhard A. Groll

William E. and Florence E Perry Head of the School of Mechanical Engineering

Link to Curriculog entry:

<https://purdue.curriculog.com/proposal:34430/form>