Automakers are facing some of the biggest challenges in their history over the next decade to meet pending fuel economy targets for 2025. In this new seminar, engineer Gregg Peterson draws on three decades of aero-thermal experience at automotive companies such as General Motors and Lotus Engineering to provide background on CAFE requirements, along with the tools and technologies available to meet the new standards.

Ten streamed lecture modules provide an overview of areas that can contribute to increased fuel economy and design approaches that can provide opportunities to reduce fuel consumption such as:

- Regulatory Background & Technology Overview
- Effects of Mass Reduction on Performance
- Materials, Manufacturing & Joining Technologies
- Lightweight Design Principles
- Mass Reduction for Vehicle Body Systems
- Reduction Challenges for HEVs
- Alternative Reduction Approach for HEVs
- Public Domain, Government-Funded Study

**Prerequisite:** Working knowledge of thermodynamics & automotive systems is recommended. Detailed information on CAR’s research-based automotive engineering seminars on relevant topics in the areas of powertrain modeling & control, advanced propulsion, energy and NVH is available at englearn.osu.edu/curriculum/noncredit.