

AUTOMOTIVE MATERIALS AND DESIGN

The automotive system of the twenty-first century is poised to advance at a rapid pace with greater emphasis on lightweight structures, high efficiency powertrains, intelligent control systems, lower emissions, robust design and manufacturing, as well as improved comfort and safety. This certificate program gives an opportunity for automotive engineers to learn to about lightweight materials, advancements in ergonomic and structural design, vehicle dynamics and control, and advanced manufacturing techniques (12 credit hours).

Certificate offered on Campus and via Distance Learning.

Coursework Requirements

Code	Title	Credit Hours
Please choose four courses to complete the required 12 credit hours.		
AENG 545	Vehicle Ergonomics I	3
AENG 550	Design of Automotive Chassis	3
AENG 551	FEM in Auto Structure Design	3
AENG 555	Vehicle Stability & Control	3
AENG 586	Design & Mfg: Lwt Auto Mat	3
IMSE 593	Vehicle Package Engineering	3
ME 543	Vehicle Dynamics	3
ME 545	Acoustics and Noise Control	3
ME 584	Mechanical Behavior of Polymer	3
ME 587	Automotive Composites	3