

# AUTOMOTIVE POWERTRAINS

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Automobiles 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 interested in high efficiency powertrains to learn to about the advancements in engines, transmissions, electric and hybrid vehicles, and emission controls. (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.		
ECE 530	Energy Storage Systems	3
ECE 532	Auto Sensors and Actuators	3
ECE 5462	Elec Aspects of Hybrid Vehicle	3
ME 538	Vehicle Thermal Management	3
ME 547	Automotive Powertrains I	3
ME 548	Automotive Powertrains II	3
ME 570	Powertrain NVH of Electrified Vehicles	3
ME 596	Internal Combustion Engines I	3
ME 597	Internal Combustion Engines II	3
ME 598	Engine Emissions	3