

## ATEC 231: HYBRID-ELECTRIC VEHICLE I

An ASE/NATEF course designed to familiarize the student with safety, electrical and electronic theories related to hybrid vehicles, high voltage analysis tools used in hybrid and electric vehicle systems, high voltage vehicle safety systems, AC induction electric machines, and permanent magnet electric motors theory and construction. Mathematical calculations include horsepower, torque, rpm, electrical power, maximum electrical motor speed, and electrical conversions.

Credits: 5

Prerequisites: ATEC 200, 201, 202, 203, 205, and 206 (or 204) or instructor permission. AMATH 121 or concurrent enrollment.

Program: [Automotive Technology](#)