AMST2212 - Advanced Automotive Electrical Systems

Credits:	3 (2/1/0)
Description:	This course covers the principles of networks and Binary Unit Systems (BUS). Students learn the use of an oscilloscope, the testing of high voltage systems, and high voltage safety.
Prerequisites:	• AMST2206
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Exhibit safety and professionalism by maintaining a clean and safe work environment, following OSHA and manufacturer guidelines. 2. Perform electrical system tests with the use of a multi-channel oscilloscope. 3. Interpret and demonstrate knowledge of data network systems. 4. Diagnose and test multiple communication networks. 5. Diagnose and repair electrical accessories using a variety of scan tools. 6. Demonstrate the use of electric multi-meters and voltage measuring devices. 7. Demonstrate knowledge of SAE (Society of Automotive Engineers) standards as they apply to hybrid/electric platforms. 8. Perform electrical tests using a lab scope on high voltage systems. 9. Diagnose and test electrical accessories using diagnostic flow charts and electronic service information.
MnTC goal areas:	None

**Can be taking as a Prerequisite or Corequisite.*

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