

## AMST2218 - Electronic Powertrain Control II

Credits:	3 (1/2/0)
Description:	Students in this course will study the many electronic control systems used on today's passenger cars and light trucks. Second-generation on-board diagnostic strategies will be covered for ignition, fuel and emissions systems. The course will also incorporate hybrid technology, high-pressure gas fuel injection and diesel injection operation and testing.
Prerequisites:	<ul style="list-style-type: none"> <li>• AMST1101</li> <li>• AMST1111</li> <li>• AMST2214</li> </ul>
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"> <li>1. Exhibit safety precautions and professionalism.</li> <li>2. Demonstrate knowledge of environmental and OSHA regulations.</li> <li>3. Interpret service information.</li> <li>4. Diagnose vehicle problems using manufacturers' diagnostic equipment.</li> <li>5. Diagnose vehicle problems by symptom based diagnostics.</li> <li>6. Perform diagnostic and service procedures involving hybrid vehicles.</li> <li>7. Perform diagnostic and service procedures on gasoline fuel-injected engines.</li> <li>8. Perform diagnostic and service procedures on light-duty diesel engines.</li> <li>9. Interpret on-board diagnostic second generation monitors.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.