

AUTOMOTIVE TECHNOLOGY A.A.S

66 Semester Credit Hours; Curriculum: 0031

Note: Refer to IAI General Education Courses page for guidelines on General Education course selection.

Code	Title	Hours
General Education Requirements:		
<i>Area A — Communications</i>		
EGL 101	Composition I	3
Select one of the following:		3
EGL 102	Composition II	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
SPE 103	Effective Speech	
<i>Area B — Mathematics</i>		
Select one of the following:		3
MAT 114	Applied Mathematics I	
MAT 125	General Education Mathematics	
MAT 131	Elementary Statistics	
<i>Area C — Science</i>		
Once course from a science discipline		3
PHY 101	Applied Physics (recommended)	
<i>Area D — Social and Behavioral Sciences</i>		
One course from a social or behavioral science discipline		3
<i>Area E — Humanities/Fine Arts</i>		
One course from a humanities or fine arts discipline		3
<i>Area F — Global Studies</i> ¹		
One course that satisfies Global Studies requirement		0-3
<i>Area G — U.S. Diversity Studies</i> ²		
One course that satisfies U.S. Diversity Studies requirement		0-3
Total Hours		18

¹ Students may take a Global Studies course that satisfies both Area F and another Area requirement.

² Students may take a U.S. Diversity course that satisfies both Area G and another Area requirement.

Code	Title	Hours
Major Requirements:		
ATA 102	Introduction To Automotive Technology	4
ATA 110	Engine Performance And Fuel Systems	4
ATA 111	Automotive Electrical Systems I	4
ATA 113	Brake Systems	4
ATA 114	Steering, Balancing, and Alignment	4
ATA 204	Basic Automotive Engines	4
ATA 205	Advanced Automotive Engines	4
ATA 206	Clutches, Transmissions, and Differentials	4
ATA 207	Automotive Heating and Air Conditioning	4
ATA 208	Automatic Transmissions	4

ATA 210	Advanced Engine Performance Analysis	4
ATA 211	Automotive Electrical Systems II	4
Total Hours		48

Program Learning Outcomes

1. Implement safe work habits in automotive technology.
2. Perform automotive diagnostics and repairs in an orderly and clean process.
3. Demonstrate the use and care of basic automotive tools and equipment.
4. Explain the mechanical and scientific principles involved in automotive technology.
5. Employ a methodical process in performing diagnostic procedures.
6. Develop skills and technical knowledge of automotive technology that prepares students for entry level employment.

Automotive Technology A.A.S. Pathway

The following Pathway is recommended for students pursuing an Associate in Applied Science degree in Automotive Technology. For more information or program specific advising contact the Department Chair.

General Education courses should be selected from the list of IAI General Education Courses.

Course	Title	Hours
First Year		
Fall Semester		
ATA 102	Introduction To Automotive Technology	4
ATA 111	Automotive Electrical Systems I	4
EGL 101	Composition I	3
Select one of the following:		4
MAT 114	Applied Mathematics I	
MAT 125	General Education Mathematics	
MAT 131	Elementary Statistics	
Hours		15
Spring Semester		
ATA 110	Engine Performance And Fuel Systems	4
ATA 113	Brake Systems	4
PHY 101	Applied Physics	4
Select one of the following:		3
SOC 101	Introduction to Sociology ¹	
SOC 103	Social Problems ²	
Hours		15
Summer Semester		
ATA 207	Automotive Heating and Air Conditioning	4
Hours		4
Second Year		
Fall Semester		
ATA 204	Basic Automotive Engines	4
ATA 206	Clutches, Transmissions, and Differentials	4
ATA 208	Automatic Transmissions	4
Select one Humanities/Fine Arts course that also satisfies Global Studies requirements		3
Hours		15
Spring Semester		
ATA 114	Steering, Balancing, and Alignment	4
ATA 205	Advanced Automotive Engines	4
SPE 103	Effective Speech	3
ATA 210	Advanced Engine Performance Analysis	4
Hours		15

Summer Semester

ATA 211	Automotive Electrical Systems II	4
Hours		4
Total Hours		68

Note: Pathway is a recommended sequence of courses. Part-time students should contact the department chair to discuss a part-time pathway as well as course prerequisites and recommendations.

- ¹ Course fulfills the U.S. Diversity Studies Requirement. At least one U.S. Diversity Studies course is required for degree completion.
- ² Course fulfills both, the Global Studies and U.S. Diversity Studies requirements.