TRI-COUNTY
COMMUNITY COLLEGE

A.A.S. IN AUTOMOTIVE SYSTEMS TECHNOLOGY

2020-2021

A.A.S. IN AUTOMOTIVE SYSTEMS TECHNOLOGY

(A60160) The Automotive Systems Technology curriculum prepares individuals for employment as Automotive Service Technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field.

Classroom and lab experiences integrate technical and academic course work. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/transaxles, engine repair, climate control, and manual drive trains. Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair shops in the automotive service industry.

Students may be required to take one or more Developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of contact hours listed for graduation.

Automotive Service Excellence Certification will not accept any hours that are over five years old. Therefore, it is the decision of the automotive department not to accept any curriculum credits for automotive classes that are over five years old.

Fall Semester 1			**Lecture**	**Lab**	**Credit**
ACA	111	College Student Success	1	0	1
MAT	110	Math Measurement & Literacy	2	2	3
TRN	110	Introduction to Transport Technology	1	2	2
TRN	120	Basic Transport Electricity	4	3	5
AUT	116	Engine Repair	2	3	3
AUT	116A	Engine Repair Lab	0	3	1
				Total	**15**

Spring Semester 1			**Lecture**	**Lab**	**Credit**
ENG	111	Writing & Inquiry	3	0	3
AUT	141	Suspension and Steering Systems	2	3	3
AUT	141A	Suspension and Steering Systems Lab	0	3	1
AUT	151	Brake Systems	2	3	3
AUT	151A	Brake Systems Lab	0	3	1
*Humanities Gen Ed Requirement			3	0	3
				Total	**14**

Summer Semester 1			**Lecture**	**Lab**	**Credit**
TRN	140	Transport Climate Control	1	2	2
TRN	140A	Transport Climate Control Lab	1	2	2
ATT	115	Green Transportation Safety and Service	1	2	2
ATT	140	Emerging Transportation Technology	2	3	3
				Total	**9**

Fall Semester 2			**Lecture**	**Lab**	**Credit**
ENG	114	Professional Research & Reporting	3	0	3
AUT	163	Advanced Auto Electricity	2	3	3
AUT	181	Engine Performance I	2	3	3
AUT	181A	Engine Performance I Lab	0	3	1
ATT	125	Hybrid-Electric Transportation	2	4	4
				Total	**14**

Spring Semester 2			**Lecture**	**Lab**	**Credit**
AUT	231	Manual Trans/Axles/Drtrains	2	3	3
AUT	231A	Manual Trans/Axles/Drtrains Lab	0	3	1
AUT	221	Auto Transm/Transaxles	2	3	3
AUT	281	Advance Engine Performance	2	2	3
*Social Science Gen Ed Requirement			3	0	3
				Total	**13**

TOTAL HOURS **65**

**Please see the section titled "General Education Requirements for A.A.S. programs" at the end of the Program of Study section for specific courses that fulfill these requirements.*

DIPLOMA IN AUTOMOTIVE SYSTEMS TECHNOLOGY

(D60160)

Fall Semester 1			**Lecture**	**Lab**	**Credit**
MAT	110	Math Measurement & Literacy	2	2	3
TRN	110	Introduction to Transport Technology	1	2	2
TRN	120	Basic Transport Electricity	4	3	5
AUT	116	Engine Repair	2	3	3
AUT	116A	Engine Repair Lab	0	3	1
				Total	**14**

Spring Semester 1			**Lecture**	**Lab**	**Credit**
ENG	111	Writing & Inquiry	3	0	3
AUT	141	Suspension and Steering Systems	2	3	3
AUT	141A	Suspension and Steering Systems Lab	0	3	1
AUT	151	Brake Systems	2	3	3
AUT	151A	Brake Systems Lab	0	3	1
				Total	**11**

Summer Semester 1			**Lecture**	**Lab**	**Credit**
TRN	140	Transport Climate Control	1	2	2
TRN	140A	Transport Climate Control Lab	1	2	2
ATT	115	Green Transportation Safety and Service	1	2	2
ATT	140	Emerging Transportation Technology	2	3	3
				Total	**9**

Fall Semester 2			**Lecture**	**Lab**	**Credit**
AUT	163	Advanced Auto Electricity	2	3	3
AUT	181	Engine Performance I	2	3	3
AUT	181A	Engine Performance I Lab	0	3	1
ATT	125	Hybrid-Electric Transportation	2	4	4
				Total	**11**

TOTAL HOURS **45**

2020-2021