AUTOMOTIVE SYSTEMS TECHNOLOGY A.A.S. Program (A60160)

Courses required to meet graduation requirements are offered during day and evening hours. Minimum time for completion: Day - five semesters full-time attendance: Evening - will vary according to semester load of student (usually seven to nine semesters). The Associate of Applied Science degree or Diploma is awarded to graduates in this curriculum.

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 exams and be ready for full-time employment in dealerships and repair shops in the automotive service industry. The Automotive Systems Technology program is Accredited by the National Automotive Technicians Education Foundation.

GENERAL EDUCATION COURSES:SHC

GENERA	LEDUCATION COURSES.
0	nmunications:
ENG 111	Writing and Inquiry3
ENG 114	
OR	ENG 112 Writing/Research in the Disc
OR	ENG 113 Literature-Based Research 3
Humanities/	Fine Arts:
Elective	3
Natural Scie	ences/Mathematics:
MAT 110	Math Measurement & Literacy
OR	
Social/Beha	vioral Sciences:
Elective	3
MAJOR C	
AUT 113	Automotive Servicing I
AUT 116	Engine Repair 3
AUT 116	
AUT 141	Suspension & Steering Sys
AUT 141	1 6 3
AUT 151	Brake Systems
AUT 151.	
AUT 163	Adv Auto Electricity 3
AUT 163.	
AUT 181	Engine Performance 1
AUT 181.	
AUT 183	Engine Performance 24
AUT 212	Auto Shop Management
AUT 221	Auto Transm/Transaxles
AUT 221.	
AUT 231	Man Trans/Axles/Drtrains
AUT 231.	
AUT 281	Adv Engine Performance 3
TRN 110	Intro to Transport Tech
TRN 120	Basic Transp Electricity
TRN 140	Transp Climate Control
TRN 140.	
TRN 170	Pc Skills for Transp
WBL 110	World of Work
WLD 112	Basic Welding Processes
of Work-Ba	1 Learning Option: Qualified students may elect to take up to 7 credit hours sed Learning in place of AUT 116A, AUT 141A, AUT 151A, AUT 163A, AUT 221A, or AUT 231A.
Total Cred	it Hours Required71
	MENTAL COURSE REQUIREMENTS*

 DEVELOPMENTAL COURSE REQUIREMENTS*

 CTS
 080
 Computing Fundamentals
 3

 DRE
 098
 Integrated Reading Writing III
 3

Automotive Systems Technology • A60160 Suggested Program Sequence Day						
	Class	Lab	Clin/WkExp	Credit		
Fall – 1st year AUT 116 Engine Repair (1st 8 weeks) AUT 116A Engine Repair Lab (1st 8 weeks) AUT 181 Engine Performance 1 (2nd 8 weeks) AUT 181A Engine Performance 1 Lab (2nd 8 weeks) TRN 110 Intro to Transport Tech TRN 120 Basic Transp Electricity TRN 170 Pc Skills for Transp	2 0 2 0 1 4	3 3 3 2 3 2	0 0 0 0 0 0	3 1 3 1 2 5 2		
Total	10	19	0	17		
Spring – 1st year AUT 113 Automotive Servicing I AUT 183 Engine Performance 2 (1st 8 weeks) AUT 151 Brake Systems (2nd 8 weeks) AUT 151A Brake Systems Lab (2nd 8 weeks) AUT 163 Adv Auto Electricity AUT 163A Adv Auto Electricity Lab WBL 110 World of Work	0 2 2 0 2 0 1	6 6 3 3 3 3 0	0 0 0 0 0 0	2 4 3 1 3 1		
Total	7	24	0	15		
Summer – 1st year ENG 111 Writing and Inquiry MAT 110 Math Measurement & Literacy OR MAT 143 Quantitative Literacy Total	3 2 2 5	0 2 2 2	0 0 0	3 3 3 6		
Fall – 2nd year AUT 141 Suspension & Steering Sys (2nd 8 Weeks) AUT 141A Suspension & Steering Lab (2nd 8 Weeks) AUT 212 Auto Shop Management AUT 281 Adv Engine Performance TRN 140 Transp Climate Control (1st 8 weeks) TRN 140A Transp Climate Cont Lab (1st 8 weeks) Total	2 0 3 2 1 1	3 0 2 2 2 2	0 0 0 0 0 0	3 1 3 2 2 14		
Spring – 2nd year AUT 221 Auto Transm/Transaxles (2nd 8 Weeks) AUT 221A Auto Transm/Transax Lab (2nd 8 Weeks) AUT 231 Man Trans/Axles/Drtrains (1st 8 weeks) AUT 231A Man Trans/Ax/Drtrains Lab (1st 8 weeks) WLD 112 Basic Welding Processes Social/Behavioral Science Elective Total	2 0 2 0 1 3	3 3 3 3 0	0 0 0 0 0 0	3 1 3 1 2 3		
Summer – 2nd year ENG 114 Prof Research & Reporting (Preferred) OR ENG 112 Writing/Research in the Disc OR ENG 113 Literature-Based Research Humanities/Fine Art Elective Total Grand Total	3 3 3 6 45	0 0 0 0 0	0 0 0 0 0	3 3 3 3 6 71		

Work-Based Learning Option: Qualified students may elect to take up to 7 credit hours of Work-Based Learning in place of AUT 116A, AUT 141A, AUT 151A, AUT 163A, AUT 181A, AUT 221A, or AUT 231A.

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

AUTOMOTIVE SYSTEMS TECHNOLOGY Diploma Program (D60160)

GEN	ERAL	EDUCATION COURSES:SHC
Englis	h/Comi	munications:
ENG		Writing and Inquiry
		ces/Mathematics:
MAT	110	Math Measurement & Literacy
	OR	MAT 143 Quantitative Literacy
MAJ(URSES:
AUT	116	Engine Repair
AUT	116A	==-8
AUT	141	Suspension & Steering Sys
AUT	141A	Suspension & Steering Lab
AUT	151	Brake Systems
AUT	151A	=
AUT	163	Adv Auto Electricity
AUT	181	Engine Performance 1
AUT	181A	Engine Performance 1 Lab
AUT	183	Engine Performance 2
AUT	221	Auto Transm/Transaxles 3
AUT	221A	Tuto Tution Tution Duo
AUT	231	Man Trans/Axles/Drtrains
AUT	231A	11411 114110/1111 21441110 240
TRN	110	Intro to Transport Tech
TRN	120	Basic Transp Electricity5
TRN	140	Transp Climate Control
TRN	140A	Transp Climate Cont Lab
Work- hours 181A,	-Based of Work AUT 2	Systems Technology Learning Option: Qualified students may elect to take up to 4 credit to take up to 4 credit to take Learning in place of AUT 116A, AUT 141A, AUT 151A, AUT 21A, or AUT 231A.
Total	Credit	Hours Required48
DEVE	ELOPM	MENTAL COURSE REQUIREMENTS*
	080	•
		010, DMA 020, DMA 030 (MAT 110)
		010, DMA 020, DMA 030, DMA 040, DMA 050 (MAT 143)5
DRE		Integrated Reading Writing III
DILL	370	meganea reason mining m

^{*}Developmental coursework (including all prerequisites) will be required of students whose placement test scores indicate a need for greater proficiency in the areas of reading, English, mathematics, and computers. Please refer to the Course Descriptions section for prerequisite course information.

Automotive Systems Technology – Diploma • D60160 Suggested Program Sequence Evening

Suggested Program Sequence Evening						
Fall –			_	_	_	_
AUT	116	Engine Repair (2nd 8 Wks)	2	3	0	3
AUT	116A	Engine Repair Lab (2nd 8 Wks)	0	3	0	1
TRN	110	Intro to Transport Tech	1	2	0	2
TRN	120	Basic Transp Electricity (1st 8 Wks)	4	3	0	2 5
		Total	7	11	0	11
Spring	-1st	year				
AUT	151	Brake Systems (2nd 8 Wks)	2	3	0	3
AUT		Brake Systems Lab (2nd 8 Wks)	0	3	0	
AUT	163	Adv Auto Electricity (1st 8 Wks)	2	3	0	3
MAT	110	Math Measurement & Literacy	2	2.	0	3
111111	OR	MAT 143 Quantitative Literacy	2 2 2	3 3 2 2	ŏ	1 3 3 3
		Total	6	11	0	10
Fall –	2nd ve		•		Ü	10
AUT	181	Engine Performance 1 (1st 8 Wks)	2	3	0	3
AUT		Engine Performance 1 Lab (1st 8 Wks)	0	3	ő	
AUT		Man Trans/Axles/Drtrains (2nd 8 Wks)	2	3	0	1 3
AUT		Man Trans/Axles/Ditrains (2nd 8 Wks)		3	0	1
AUI	231A			-	-	_
.	2 1	Total	4	12	0	8
	s - 2nd		•	2	_	2
AUT	221	Auto Transm/Transaxles (1st 8 Wks)	2	3	0	3
AUT		Auto Transm/Transax Lab (1st 8 Wks)	0	3	0	1
AUT	183	Engine Performance 2 (2nd 8 Wks)	2	6	0	4
ENG	111	Writing and Inquiry	3	0	0	3
		Total	7	12	0	11
Fall –	3rd year	ar				
AUT	14Í	Suspension & Steering (2nd 8 Wks)	2	3	0	3
AUT	141A	Suspension & Steering Lab (2nd 8 Wks)	0	3	0	1
TRN	140	Transp Climate Control (1st 8 weeks)	1	2	0	2
TRN		Transp Climate Cont Lab (1st 8 weeks)	1	2 2	0	1 2 2
		Total	4	10	0	8
					-	
		Grand Total	28	56	0	48

AUTOMOTIVE SYSTEMS TECHNOLOGY Under Car Services Concentration Cert. Program (C60160)

Under Car Services Concentration Cert. Program (C60160)							
Maio	r Cours	es				.SH	IC
AUT	141	Suspension & Steering Sys					
AUT	141A	Suspension & Steering Lab					
AUT	151	Brake Systems					3
AUT	151A	Brake Systems Lab					1
TRN	110	Intro to Transport Tech					
TRN	120	Basic Transp Electricity			•••••		5
Total	Credi	t Hours Required	•••••	••••	•••••]	15
DEVE	LOPME	NTAL COURSE REQUIREMENT	'S*				
CTS	080 C	omputing Fundamentals					3
DMA	DMA 01	0, DMA 020, DMA 030					3
		ntegrated Reading Writing II					
studen the are Course	ts whose eas of rea e Descrip	tal coursework (including all prere- placement test scores indicate a nading, English, mathematics, and contions section for prerequisite cours Systems Technology – Under Catificate Program (C60160) Su	eed for great computers. Pi e information	er pleas	orofice ref	enti	cy in the
Fall -	- 1st Ye	ear					
TRN	110	Intro to Transport Tech		1	2	0	2
TRN	120	Basic Transp Electricity		4	3	0	5
AUT	141	Suspension & Steering Sys		2	3	0	3
AUT	141A	Suspension & Steering Lab		0	3	0	1
			Total	7	11	0	11
Spring	g – 1st '	Year					
AUT	_	Brake Systems		2	3	0	3
AUT		Brake Systems Lab		0	3	0	1
-		•					

Work-Based Learning Option: Qualified students may elect to take up to 2 credit hours of work-based learning in place of AUT 141A, AUT 151A.

Total

Grand Total

2 6 0 4

9 17 0 15