Automotive Systems Technology

Career Technologies



ABOUT THIS FIELD

Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

WHAT YOU'LL STUDY

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

WHAT YOU CAN DO

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry. The Automotive Systems Technology program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. The program includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.



PROGRAM START DATES: Fall or Spring Semester

FOR MORE INFORMATION CONTACT:

FOLLOW US

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CLASSES YOU'LL NEED TO TAKE

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS) A60160

Total Semester Hour Credits: 71

FALL SEMESTER 1							
<u>Prefix</u>	Number		ass	Lab	Clinical	Credit	
ACA	111	College Student Success	1	0	0	1	
AUT	151	Brake Systems	2	3	0	3	
AUT	151A	Brake Systems Lab	0	3	0	1	
TRN	110	Introduction to Automotive	1	2	0	2	
TRN TRN	120 120A	Basic Transportation Electricity	4 0	3 3	0 0	5 1	
IKIN	IZUA	Basic Transportation Electricity Lab Totals	8	5 14	0	13	
			-		-		
	S SEMEST		2	2	0	2	
AUT	141	Suspension & Steering Systems	2 0	3	0 0	3	
AUT ENG	141A 111	Suspension & Steering Lab	3	3 0	0	1 3	
TRN	130	Writing and Inquiry Intro to Sustainable Transportation	2	2	0	3	
TRN	145	Advanced Transportation Electronic		2	0	3	
		following:	.5 L	2	0	5	
PSY	150	General Psychology	3	0	0	3	
SOC	210	Introduction to Sociology	3	0	0	3	
		Totals	12	11	0	16	
SUMMI	ER SEMES	TFR					
AUT	181	Engine Performance I	2	3	0	3	
CIS	110	Introduction to Computers	2	2	0	3	
TRN	140	Transportation Climate Control	1	2	0	2	
TRN	140A	Transportation Climate Control Lab	1	2	0	2	
		Totals	6	9	0	10	
FALL SE	FALL SEMESTER 2						
ATT	140	- Emerging Transportation Technolog	v 2	3	0	3	
AUT	116	Engine Repair	2	3	0	3	
AUT	183	Engine Performance II	2	6	0	4	
LDD	112	Introduction to Light-Duty Diesel	2	2	0	3	
Choose	one of the	e following:					
HUM	110	Technology and Society	3	0	0	3	
HUM	115	Critical Thinking	3	0	0	3	
		Totals	11	14	0	16	
SPRING SEMESTER 2							
AUT	212	Auto Shop Management	3	0	0	3	
AUT	221	Automatic Transmissions/Transaxle	2	3	0	3	
AUT	221A	Automatic Transmissions/Transaxle Lab	0	3	0	1	
AUT	231	Manual Transmissions/Axles/Drtrai	ns2	3	0	3	
ENG	114	Professional Research & Reporting	3	0	0	3	
Choose one of the following:							
MAT	110	Mathematical Measurements	2	2	0	3	
MAT	143	Quantitative Literacy	2	2	0	3	
		Totals	12	11	0	16	



DIPLOMA/CERTIFICATE OPTIONS

DIPLOMA - D60160

Total Semester Hour Credits: 42

		STER 1							
Prefix		Title	Class		Clinical	Credit			
AUT	151	Brake Systems	2	3	0	3			
AUT	151A	Brake Systems Lab	0	3	0	1			
TRN	110	Introduction to Automotive	1	2	0	2			
TRN	120	Basic Transportation Electricit	y 4	3	0	5			
TRN	120A	Basic Transp. Electricity Lab	0	3	0	1			
Choose one of the following:									
ACA	111	College Student Success	1	0	0	1			
ACA	122	College Transfer Success	0	2	0	1			
		Totals	7-8	14-16	0	13			
CDDIN		MESTER 1							
				2	0	2			
AUT	141	Suspension & Steering System		3	0	3			
AUT	141A	Suspension & Steering Lab	0	3	0	1			
CIS	110	Introduction to Computers	2	2	0	3			
ENG	111	Writing and Inquiry	3	0	0	3			
TRN	145	Advanced Transp. Electronics	2	3	0	3			
		Totals	9	11	0	13			
SUM	MFR S	EMESTER							
AUT	181	Engine Performance I	2	3	0	3			
TRN	140	Transportation Climate Contr		2	0	2			
		•	1	2					
TRN	140A	Transp. Climate Control Lab			0	2			
		Totals	4	7	0	7			
FALLS	SEME	STER 2							
AUT	116	Engine Repair	2	3	0	3			
LDD	112	Introduction to Light-Duty Di	esel 2	2	0	3			
Choos	e one c	of the following:							
MAT	110	Mathematical Measurements	2	2	0	3			
MAT	143	Quantitative Literacy	2	2	0	3			
		Totals	6	7	0	9			
						•••••			
		RTIFICATE - C60160	В						
		ter Hour Credits: 15							
	STER								
AUT	151	Brake Systems	2	3	0	3			
AUT	151A	Brake Systems Lab	0	3	0	1			
TRN	110	Introduction to Automotive	1	2	0	2			
TRN	120	Basic Transportation Electricit	y 4	3	0	5			
		Totals	7	11	0	11			
SEME	STER	2							
AUT	141	Suspension & Steering Syster	ns 2	3	0	3			
AUT	141A	Suspension & Steering Syster		3	0	1			
AUT	141A	Totals	2	6	0	4			
•••••						•••••			
ADV	ANC	ED CERTIFICATE - CO	5016	0 A					
		ter Hour Credits: 17							
SEME	STER	1							
AUT	181	Engine Performance I	2	3	0	3			
TRN	140	Transportation Climate Contr	ol 1	2	0	2			
TRN	140A	Transp. Climate Control Lab	1	2	0	2			
		Totals	4	7	0	7			
		•							
	STER		~	-	-				
AUT	183	Engine Performance II	2	6	0	4			
LDD	112 145	Intro to Light-Duty Diesel	2	2	0	3			
	1/15	WINADCOG ITADOD FLOCTODICO		2	11	~			

SEMESTER Z							
AUT	183	Engine Performance II	2	6	0	4	
LDD	112	Intro to Light-Duty Diesel	2	2	0	3	
TRN	145	Advanced Transp. Electronics	2	3	0	3	
		Totals	6	11	0	10	