

ASSOCIATE OF APPLIED SCIENCE

AUTOMOTIVE TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

2024-25 CatalogEffective Summer 2024

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Business, Engineering, and Information Technologies Division

Automotive and Transportation Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT122	Automotive Systems and Engine Technology	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Systems	4	AUT121	
AUT221	Fuel and Emissions Management Systems	3	AUT125	
AUT222	Engine System Performance Diagnosis	3	AUT125	
AUT223	Advanced Automotive Electronics	3	AUT125	
AUT227	Computerized Vehicle Control	3	AUT125	
AUT233	Automotive Diagnostic Applications	2	AUT223	
AUT234	Alternative Fuels and Advanced Automotive Technologies	2	AUT223	
	See Technical Elective list page**	2-5	Check for prerequisites	
	Total	30-33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
AUT121	Automotive Technical Skills	2		
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT126	Automotive HVAC Systems	2	AUT121	
AUT225	Automotive Drivetrain 1	3	AUT121	
AUT226	Automotive Drivetrain 2	3	AUT121	
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH107	Industrial Math^	3		
or MTH125	or Callers Alaskus O	or 4	Check for prerequisites	
PHL122	College AlgebraΩ Ethics	3		
BUS122	Basic Economics^	3	IDS102 or Proficiency	
B03122	Total	30	120102 of Homeleney	
	TOTAL CREDIT HOURS	60-64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

 $[\]Omega$ MTH125 College Algebra should be taken by students planning to transfer to a four-year university

^{**}See Technical Elective list page.

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Effective Summer 2024

PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

First Semester		Credit Hours	Pre- and Co-requisites
SSC101	Student Success Seminar^^	1	Take first semester
AUT121	Automotive Technical Skills	2	
AUT122	Automotive Systems and Engine Applications	4	AUT121
AUT123	Engine Diagnosis and Major Service	4	AUT121
MTH107	Industrial Math^	3	
or	or	or	Check for prerequisites
MTH125	College Algebra Ω	4	
		14-15	
Second Semester			
AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Systems	4	AUT121
AUT126	Automotive HVAC Systems	<u>2</u>	AUT121
ENG124	College Composition^	<u>3</u>	Co-ENG024 or Co-ENG011 or
			Proficiency
		13	
Third Semester			
AUT222	Engine Systems Performance Diagnosis	3	AUT125
AUT223	Advanced Automotive Electronics	3	AUT125
AUT225	Automotive Drivetrain 1	<u>3</u>	AUT121
		9	
Fourth Semester			
AUT221	Fuel and Emissions Management Systems	3	AUT125
AUT226	Automotive Drivetrain 2	3	AUT121
AUT227	Computerized Vehicle Control	<u>3</u>	AUT125
		9	
Fifth Semester			
PHL122	Ethics	3	
		3	
Sixth Semester			
BUS122	Basic Economics^	3	IDS102 or Proficiency
ENG221	Technical Report Writing	<u>3</u>	ENG124
		6	
Seventh Semester			
AUT233	Automotive Diagnostics Applications	<u>2</u>	AUT223
		2	
Eighth Semester			
AUT234	Alternative Fuels and Advanced Automotive Systems	2	AUT223
	See Technical Elective list page**	<u>2-5</u>	Check for prerequisites
	1 6 -	<u></u>	Free Amount
	TOTAL CREDITS	60-64	

[^]Based upon SSC placement score

[^]To promote student success, this course should be taken in the first semester

 $[\]Omega$ MTH125 College Algebra should be taken by students planning to transfer to a four-year university

^{**}See Technical Elective list page.

AUTOMOTIVE TECHNOLOGY

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TECHNICAL ELECTIVES: Two (2) credit hours minimum					
Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year	
AUT128	Automotive Diesel Engine Performance	2			
AUT130	Automotive Safety and Shops Standards	2			
AUT131	Automotive Detailing Business Practices	2			
AUT132	Automotive Exterior Detailing	3			
AUT133	Automotive Interior Detailing	2	AUT132		
AUT134	Automotive Under-Hood and Under-Car Detailing	2	AUT132		
AUT135	Advanced Automotive Detailing Techniques	3	AUT132		
AUT136	Practical Automotive Detailing Applications	2	AUT132		
AUT137	ASE Test Preparation	2			
AUT138	Applied Automotive Principles	4			
AUT141	Steering, Suspension, and Braking Operations	2			
AUT142	Auto Electrical Systems Toyota	2			
AUT143	Heating Ventilation and Air Conditioning for Light Vehicles	1			
AUT253	Computerized Engine Control Systems	2			
AUT171	Introduction to Honda PACT	1			
AUT172	Honda Engine Mechanical	2	A T 1771 2 4	1	
AUT173	Honda Steering and Suspension	1	AUT124	1	
AUT174	Honda Braking Systems	1	AUT124		
AUT175	Honda Electrical Systems	2	AUT125		
AUT176	Honda HVAC Systems	1	AUT125		
AUT277	Honda Computerized Engine	2	AUT223		
AUT271	Honda Fuel and Emissions System	1	AUT221		
AUT273	Honda Advanced Diagnostic Applications	1	AUT223		
AUT275	Honda Manual Transmissions	1	AUT225		
AUT276	Honda Automatic Transmissions	1	AUT226		
AUT181	Intro to CAT Lift Trucks	1	AUT121		
AUT182	CAT Operator Safety Training	1	AUT121		
AUT183	CAT Service Information System	1	AUT121		
AUT184	CAT Hydraulic Systems	1	AUT121		
AUT185	CAT Internal Combustion Engine	2	AUT121		
AUT186	CAT Masts and Lift Mechanisms	1	AUT121		
AUT187	CAT Standing Systems	3	AUT121		
AUT188	CAT Steering Systems	1	AUT121 AUT121		
AUT189	CAT Braking Systems CAT Differentials and Front Axles		AUT121 AUT121		
AUT281 AUT282	CAT Differentials and Front Axies CAT Transmissions	1 2	AUT121 AUT121		
AUT283	CAT Transmissions CAT Fuel Systems (LP, Gasoline)	2	AUT121 AUT121		
AUT254	Automotive Aftermarket Vehicle Interior Modifications	3	AUT125		
AUT255	Automotive Aftermarket Vehicle Exterior Modifications Automotive Aftermarket Vehicle Exterior Modifications	3	AUT125 AUT125		
AUT256	Automotive Aftermarket Vehicle Exterior Modifications Automotive Aftermarket Vehicle Powertrain Modifications	3	AUT123 AUT123		
AUT257	Automotive Aftermarket Vehicle Chassis Modifications	3	AUT124		
AUT191	Automotive CO-OP 1	2	A01124		
AUT191 AUT192	Automotive CO-OP 2	2			
AUT193	Automotive CO-OF 3	2			
AUT194	Automotive CO-OP 4	2			
AUT 224	Automotive Co-or 4 Automotive Diesel Systems	2	AUT 121		
AUT228	Auto Service Management	2	AU1 121		
AUT230	Technical Project	2			
TOY101	Introduction to Toyota T-TEN	3			
TOY102	Toyota Electrical Systems I	5	TOY101		
TOY103	Toyota Electrical Systems 1 Toyota Steering, Suspension, and Handling	5	TOY101		
TOY104	Toyota Engine Diagnosis and Repair	5	TOY101		
TOY105	Toyota Engine Controls I	5	TOY104		
TOY106	Toyota Manual Transmissions and Drivetrains	5	TOY102		
TOY201	Toyota Electrical Systems II	5	TOY102		
TOY202	Toyota Automotive Braking Systems	5	TOY201	1	
TOY203	Toyota HVAC Systems	5	TOY201	1	
TOY204	Toyota Engine Controls II	5	TOY105	1	
TOY205	Toyota Automatic Transmissions	5	TOY204		