

**ROWAN COLLEGE AT GLOUCESTER COUNTY
AUTOMOTIVE TECHNOLOGY
Associate in Applied Science (A.A.S.) – Career
Program Requirements**

The Automotive Technology Program is a cooperative agreement between GCC, Ford Motor Company, and the Gloucester County Institute of Technology. This is a full-time, two-year curriculum composed of five 20-week semesters. The program provides alternating 10-week sessions of classroom/laboratory instruction and internships at local automotive dealerships, providing theory, practice, and hands-on experience which will qualify graduates for gainful employment as service technicians. Students who have completed the program will be able to:

- Safely and competently work in an automotive repair facility
- Understand all eight ASE areas of automotive technology regardless of manufacturer. These systems include but are not limited to: electrical, brakes, steering, power-train controls and automatic transmissions
- Diagnose and fix all major automotive systems
- Demonstrate social skills and a high level of professionalism

Required Core and Elective Courses

<u>Communications</u>		<u>Credits</u>
ENG 101	English Composition I	3
ENG 102	English Composition II	3
<u>Humanities</u>		
ART 101	Art Appreciation I	3
<u>Social Science</u>		
PSY 101	General Psychology	3
<u>History</u>		
HIS 204	First 100 Years of the American Automobile	3
<u>HPE</u>		
HPE 102	First Aid, Safety, and CPR	2
<u>Mathematics</u>		
MAT 109	Technical Mathematics	3
<u>Science</u>		
PHY 110	Applied Physics	4
<u>Business</u>		
CIS 102	Introduction to Computers	4
<u>Cooperative Education</u>		
CEP ____	Co-op Education Work Experience	1
CEP ____	Co-op Education Work Experience	1
CEP ____	Co-op Education Work Experience	1
<u>Automotive</u>		
AUT 101	Auto Service Fundamentals	2
AUT 103	Front End Suspension Systems	3
AUT 105	Brakes and Hydraulic Controls	3
AUT 107	Automotive Electrical Systems	5
AUT 110	Engine Repair	4
AUT 111	Heating, Ventilation, and Air Conditioning	3
AUT 121	Automatic Transmissions I	2
AUT 123	Automotive Electronics	4
AUT 131	Fuel and Emission Systems	3
AUT 134	Automatic Transmissions II	3
AUT 135	Manual Transmissions	3
		<u>TOTAL MINIMUM CREDITS: 66</u>

*Formerly COM 101 / 102

AUTOMOTIVE TECHNOLOGY
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Five Semester Sequence of Courses

<u>FIRST YEAR - First Semester</u>			<u>Credits</u>
_____	AUT 101	Auto Service Fundamentals	2
_____	AUT 107	Automotive Electrical Systems	5
_____	ENG 101	English Composition I	3
_____	MAT 109	Technical Mathematics	3
_____	CEP*	Co-op Education Work Experience	1
			14
<u>Second Semester</u>			
_____	AUT 105	Brakes & Hydraulics Controls	3
_____	AUT 103	Front End Suspension	3
_____	HPE 102	First Aid, Safety, and CPR	2
_____	PHY 110	Applied Physics	4
			12
<u>Third Semester</u>			
_____	AUT 110	Engine Repair	4
_____	AUT 111	Heating, Ventilation, and Air Conditioning	3
_____	CIS 102	Introduction to Computers	4
_____	AUT 135	Manual Transmissions	3
_____	CEP*	Co-op Education Work Experience	1
			15
<u>SECOND YEAR - Fourth Semester</u>			
_____	AUT 121	Automatic Transmissions I	2
_____	AUT 131	Fuel & Emission Systems	3
_____	ENG 102	English Composition II	3
_____	PSY 101	General Psychology	3
_____	CEP*	Co-op Education Work Experience	1
			12
<u>Fifth Semester</u>			
_____	AUT 123	Automotive Electronics	4
_____	AUT 134	Automatic Transmissions II	3
_____	HIS 204	First 100 years of the American Automobile	3
_____	ART 101	Art Appreciation I	3
			13
		<u>TOTAL MINIMUM CREDITS:</u>	66

*10-week internship with a Ford/Lincoln-Mercury dealership is required as a prerequisite to the subsequent semester.