

Automotive Technology (Global, GMASEP, Chrysler)- Associate in Applied Science (2020-21 Catalog)

SEMESTER-BY-SEMESTER PROGRAM MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion

Plans can be modified to fit student needs by adding more semesters

Choose your courses with your Advisor.

Developmental Education Courses (if required)		
<input type="checkbox"/>	ACLS050	Introduction to Academic Literacy
<input type="checkbox"/>	ENGL027	Writing Skills Workshop

Location: B= BETH, M= MROE, S=SBTH, E= ESTN, D= DIST *subject to change

complete	Course #	Course Title	Credits	Gen Ed	Fall	Winter	Spring	Summer	Pre-requisites / Co-requisites	
Semester 1	<input type="checkbox"/>	COLS101	College Success	1		B, M, D	----	B, M, D	D	
	<input type="checkbox"/>	AUTO/ASEP/AUTC100	Automotive Fundamentals	2		B	----	----	----	
	<input type="checkbox"/>	AUTO/ASEP/AUTC101	Automotive Engines	4		B	----	----	----	PRE or CO: AUTO/ASEP/AUTC100
	<input type="checkbox"/>	AUTO/ASEP/AUTC103	Automotive Brakes	3		B	----	----	----	PRE or CO: AUTO/ASEP/AUTC100
	<input type="checkbox"/>	AUTO/ASEP/AUTC104	Automotive Suspension & Alignment	3		B	----	----	----	PRE or CO: AUTO/ASEP/AUTC100
	<input type="checkbox"/>	AUTO/ASEP/AUTC105	Automotive Electrical Systems	3		B	----	----	----	PRE or CO: AUTO/ASEP/AUTC100
	<input type="checkbox"/>	AUTO/ASEP/AUTC106	PA Safety Inspection Certification	1		B	----	----	----	PRE or CO: AUTO/ASEP/AUTC100
		Total Semester Credits:	17							
Semester 2	<input type="checkbox"/>	AUTO145	Winter Practicum	2		----	----	on-site	----	PRE or CO: AUTO/ASEP/AUTC103, 104, & 105
	<input type="checkbox"/>	AUTO/ASEP/AUTC121	Auto Heating & Air Conditioning Systems	3		----	----	B	----	PRE: AUTO/ASEP/AUTC105
	<input type="checkbox"/>	AUTO/ASEP/AUTC125	Advanced Automotive Electronic Systems	3		----	----	B	----	PRE: AUTO/ASEP/AUTC105
	<input type="checkbox"/>	CMTH102	Introduction to Communication	3	Comm	B, M, D	----	B, M, D	B, M, D	
	<input type="checkbox"/>	ENGL101	English I	3	Comm	B, M, D	----	B, M, D	B, M, D	PRE: ENGL Placement Policy
	<input type="checkbox"/>	MATH103	Technical Mathematics	3	QL	B, M, D	----	B, M, D	----	
		Total Semester Credits:	17							
Sem.	<input type="checkbox"/>	AUTO175	Summer Practicum	4		----	----	----	on-site	PRE: AUTO101, 103, 104, 105, 121, and 125
		Total Semester Credits:	4							
Semester 4	<input type="checkbox"/>	AUTO203G	Automotive Shop Management Practices (WI)	3		B	----	----	----	PRE: AUTO175 & ENGL101
	<input type="checkbox"/>	AUTO/ASEP/AUTC211	Automotive Fuel & Emission Systems	3		B	----	----	----	
	<input type="checkbox"/>	AUTO/ASEP/AUTC221	Advanced Engine Performance	3		B	----	----	----	
	<input type="checkbox"/>	AUTO/ASEP/AUTC224	Advanced Automotive Studies	3		B	----	----	----	PRE: AUTO/ASEP/AUTC101, 103, 104, 105, 121, 125, & AUTO175
	<input type="checkbox"/>	ENGL151R	English II (Report Writing)	3	Comm	B, M, D	----	B, M, D	B, D	PRE: ENGL101
	<input type="checkbox"/>	PHYS152	Physical Science II	3	SCI	B, D	----	D	D	
		Total Semester Credits:	18							
Semester 5	<input type="checkbox"/>	AUTO245	Winter Practicum II	2		B	----	B	B	PRE: AUTO125, 211, AUTO/ASEP/AUTC221
	<input type="checkbox"/>	AUTO/ASEP/AUTC225	Mechanical Drive Train Systems	4		----	----	B	----	PRE: AUTO125 and AUTO 175
	<input type="checkbox"/>	AUTO/ASEP/AUTC226	Automatic Transmission Systems	4		----	----	B	----	PRE: AUTO125 and AUTO 175
	<input type="checkbox"/>	HUMA121	The American Work Experience	3	AH	B, D	----	B, D	D	
	<input type="checkbox"/>	GEOG121	Environmental Sustainability	3	SSHB	B, M, D	----	B, M, D	D	
		Total Semester Credits	16							
		Total Degree Credits	72							

****It is the student's responsibility to be knowledgeable of NCC graduation requirements and to verify transfer requirements with the 4-year institution. Courses listed on the program map are based upon the assumption that prerequisites and courses taken in previous semesters will be successfully completed**

General Education Requirements		
<input type="checkbox"/>	GEOG121	Diversity
<input type="checkbox"/>	AUTO203G	Writing Intensive

Notes:

- ASEP are GM-specific courses and AUTC are Chrysler-specific courses.
- Completion of AUTO203G satisfies the Writing Intensive (WI) requirement for this program
- Computer competencies are included in various courses in this program; thus, completing the program automatically satisfies the computing requirement for this program.
- Recommended additional non-credit course: Welding for Auto Techs.
- AUTO110 Introduction to Hybrid Vehicles is offered as an elective in the Spring Semester
- Students in Automotive Technology (AUTO) must be sponsored by an Automotive Repair shop for Practicums; students in Automotive Technology GM (ASEP) must be sponsored by a GM dealer for Practicums; students in Automotive Technology Chrysler (AUTC) must be sponsored by a Chrysler dealer for Practicums.

Program Narrative:

- Today's vehicles are highly sophisticated, using advanced technology that the average car-owner cannot maintain. Customers need and expect qualified automotive technicians now more than ever. Because of this, job opportunities for well-trained technicians continue to grow.
- NCC's program provides students with high-level technical understanding of current developments in the automotive service profession. Our program focuses on the mastery of technology as you prepare for the workplace. The two-year program is approved by GM and Chrysler, and features both classroom work and supervised experience at a sponsoring dealership or approved automotive service facility. Northampton's GM Automotive Service Educational Program (ASEP) and the Chrysler MOPAR College Automotive Program (MCAP) are both certified by the National Automotive Technician Education Foundation.

Program Features:

- As a student in NCC's associate's degree program you can choose among three different options: the GM ASEP, Chrysler MCAP, and global programs. The ASEP and CAP options focus on courses devoted exclusively to current GM or Chrysler vehicles. Global students may select courses which provide product specific information from either GM or Chrysler or non-product specific automotive courses. Our specialized diploma in Automotive Technology can be completed in just two semesters.
- Our program requires practicums so you can apply their classroom theory in the real world. During your practicum, you will work under the guidance of a mentor at an approved sponsoring automotive service facility. The knowledge and skills gained in this setting are extremely valuable.
- The cost of tuition, fees, hand tools and other expenses are the responsibility of the student; however, since students are employees of sponsoring dealerships and approved service facilities, they can earn while they learn.

Program Learning Outcomes:

- Have the ability to demonstrate a positive attitude toward the efficacy of professionalism in the work place.
- Diagnose and repair mechanical systems of automotive engines; automatic transmissions and transaxles; manual drive trains and axles; suspension and steering systems; braking systems; electrical and electronic systems; heating and air conditioning systems; and engine performance systems.
- Exhibit logical thinking throughout essential areas of automotive diagnostics, using published technical information to repair a vehicle while meeting manufacturer's specifications.
- Demonstrate competence in the use of general and highly specialized tools and equipment.
- Demonstrate the ability to communicate effectively on both technical and lay levels.

Career Information:

- Career Information: Automotive Service Technician, Auto Electronics Specialist, Transmission and Drive Train Specialist, Alignment & Underbody Specialist
- Leading To: Service Writer, Shop Foreman, Specialty Technician