

PROGRAM CURRICULUM



Automotive Technology

General Motors

Associate in Science

DIVISION OF TRANSPORTATION & ENERGY

The General Motors Automotive Service Education Program (ASEP) is designed to provide the technical competence and professionalism needed to become a dealership technician. ASEP involves academic as well as automotive lecture/laboratory instruction focusing on General Motors (GM) products at the MassBay Automotive Technology Center. Students are also required to work at a GM dealership as part of the cooperative education phase of their training. This program is a collaborative effort between MassBay Community College and General Motors. The College retains academic and administrative responsibility for the ASEP, which is certified by the National Automotive Technicians Education Foundation (NATEF) in all eight performance areas.

Upon successful completion, the Associate in Science Degree in Automotive Technology with a concentration in General Motors is awarded.

ADMISSION REQUIREMENTS

- Minimum eligibility for admission to this program includes:
- MassBay placement into College Writing (WR 100) or completion of Intro to Language (LN 090)
 - MassBay placement into Introductory Algebra (MA 095) or completion of Basic Math Studies (MA 090)
 - Valid driver's license (May be subject to dealership review of driving record and drug testing)

PROGRAM FOOTNOTES

Humanities Electives: Art, Communications, Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Oral Communication, Sign Language, Theater Arts

Social Science Electives: Anthropology, Geography, History, Economics, Government, Law and Society (LA 230), Psychology, Sociology

COURSE	COURSE TITLE	CREDITS
<i>Semester 1</i>		
<i>12 weeks academic study</i>		
<i>12 weeks cooperative study</i>		
AS 100	Automotive Fundamentals	5
AS 106	Automotive Brakes Systems	3
CT 100	Critical Thinking	3
MAC 101	Technical Math	3
SF 131	Oral Communication	3
AS 110	Cooperative Education I	3
		credits:
		20
<i>Semester 2</i>		
<i>12 weeks academic study</i>		
AS 108	Automotive Ignition and Fuel Systems	3
AS 105	Heating and Air-Conditioning Theory	3
AS 102	Automotive Electrical Fundamentals	4
CS 100	Computers and Technology	3
EN 101	Freshman English I	3
		credits:
		16
<i>Semester 3</i>		
<i>8 weeks academic study</i>		
<i>7 weeks cooperative education</i>		
AS 111	Cooperative Education II	3
AS 204	Automotive Suspension Systems	3
AS 206	Advanced Engine Performance	5
PS 260	Psychology in Business and Industry	3
	Social Science Elective	3
		credits:
		17
<i>Semester 4</i>		
<i>12 weeks academic study</i>		
<i>12 weeks cooperative education</i>		
AS 209	Cooperative Education III	3
AS 208	Advanced Automotive Electronics	3
AS 213	Automatic Transmissions, Manual Transmission, and Drive Systems	6
AS 216	Automotive Engine Diagnosis and Repair	4
EN 102	Freshman English II	3
	Humanities Elective	3
		credits:
		22
<i>Semester 5</i>		
<i>12 weeks cooperative education</i>		
AS 210	Cooperative Education IV	3
		credits:
		3
		Total Credits:
		78

