

# 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 professional level of the incoming dealership technician. The program 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 cooperative education phase of their training. The General Motors ASEP Program is a collaborative effort between MassBay Community College and General Motors. The College retains academic and administrative responsibility for the program and is certified by the National Automotive Technicians Education Foundation Inc. (NATEF) in all eight performance areas.

Upon 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 (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, Psychology, Sociology, Law & Society (LA 230)

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 Mathematics	3
SF 131	Oral Communication	3
AS 110	Cooperative Education I	3
		<b>credits:</b>
		20
<i>Semester 2</i>		
<i>12 weeks academic study</i>		
AS 108	Automotive Ignition & Fuel Systems	3
AS 105	Heating & Air Conditioning Theory	3
AS 102	Automotive Electrical Fundamentals	4
CS 100	Computers & Technology	3
EN 101	Freshman English I	3
		<b>credits:</b>
		16
<i>Semester 3</i>		
<i>8 weeks academic study</i>		
<i>7 weeks cooperative education</i>		
AS 111	Cooperative Education II	3
AS 206	Advanced Engine Performance	5
AS 205	Automotive Suspension Systems	3
PS 260	Psychology in Business & Industry	3
		<b>credits:</b>
		17
<i>Semester 4</i>		
<i>12 weeks academic study</i>		
<i>12 weeks cooperative study</i>		
AS 209	Cooperative Education III	3
AS 213	Manual/Automatic Trans. & Drive Systems	6
AS 208	Advanced Automotive Electronics	3
AS 216	Automotive Engine Diagnosis & Repair	4
EN 102	Freshman English II	3
		<b>credits:</b>
		22
<i>Semester 5</i>		
<i>12 weeks cooperative study</i>		
AS 210	Cooperative Education IV	3
		<b>credits:</b>
		78

