

# General Studies: Automotive Technology

## Associate in Science

### DIVISION OF AUTOMOTIVE TECHNOLOGY

The General Studies: Automotive Technology program concentration is designed to provide the technical competence and professionalism needed to become an automotive technician. The program involves academic as well as automotive lecture/ laboratory instruction focusing on products from multiple manufacturers. Students are also required to work at an approved automotive shop or dealership as part of the cooperative education phase of their training. The College has the academic and administrative responsibility for the program, which is certified by the ASE Education Foundation (ASEEF) in all eight-performance areas.

Upon successful completion, the Associate in Science Degree in General Studies: Automotive Technology concentration is awarded.

### ADMISSION REQUIREMENTS

Minimum eligibility for admission to this program includes:

- Valid Driver's license (Subject to dealership review)

### PROGRAM FOOTNOTES

Quantitative skills are a MassBay graduation competency for associate degree programs. Prior to graduation, students must demonstrate this competency by completing a 100-level math course (not MAC); or placing into a 200-level mathematics course.

\* This course is only offered during the Winter Intersession

COURSE	COURSE TITLE	CREDITS
<i>First Year Semester 1 (Fall)</i>		
CS 100	Computers and Technology	3
CT 100	Critical Thinking	3
AI 100	Automotive Fundamentals	3
AI 102	Automotive Electrical Fundamentals	5
		<b>credits:</b>
		14
<i>First Year Semester 2 (Spring)</i>		
AI 204*	Automotive Suspension Systems	3
EN 101	English Composition I	3
AI 103	Automotive Engine Diagnosis and Repair	4
AI 106	Automotive Brake Systems	3
AI 121	Cooperative Education I	1
		<b>credits:</b>
		14
<i>First Year Semester 3 (Summer)</i>		
AI 122	Cooperative Education II	1
MA106	Quantitative Reasoning	3
		<b>credits:</b>
		4
<i>Second Year Semester 4 (Fall)</i>		
EN 102	English Composition II	3
AI 200	Engine Performance	5
AI 202	Manual transmission and Drive Lines	3
AI 203	Automatic Transmissions	3
AI 123	Cooperative Education III	1
		<b>credits:</b>
		15
<i>Second Year Semester 5 (Spring)</i>		
CO 131	Oral Communication	3
PS 260	Psychology in Business and Industry	3
AI 105	Heating and Air Conditioning Diagnosis and Repair	3
AI 206	Hybrid and Electric Vehicles	3
AI 124	Cooperative Education IV	1
		<b>credits:</b>
		13
		<b>Total Credits:</b>
		60