

General Studies: Automotive Technology All-Brand

Associate in Science

DIVISION OF AUTOMOTIVE TECHNOLOGY

The All-Brand 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 repair facility 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:

- Completion of placement tests
- Valid Driver's license (May be subject to dealership review of driving record and drug testing)

PROGRAM FOOTNOTES

Math Elective: Any 3 credit 100 level mathematics course or higher (not MAC.) 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.

Humanities Elective: Art, Communication, English (EN 120 or higher), ESL (ES 100 or higher; up to 6 credits), Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Sign Language, Theater Arts

Social Science Elective: Anthropology, Economics, Geography, Government, History, Law, Psychology, Sociology

Graduation Requirements

Minimum of 630 hours of supervised co-op education.

COURSE	COURSE TITLE	CREDITS
<i>First Year</i>	<i>Semester 1 (Fall)</i>	
AI 100	Automotive Fundamentals	3
AI 102	Automotive Electrical Fundamentals	5
CS 100	Computers and Technology	3
CT 100	Critical Thinking	3
AI 121	Cooperative Education I	1
	credits:	15
<i>First Year</i>	<i>Semester 2 (Spring)</i>	
AI 204*	Automotive Suspension Systems	3
EN 101	English Composition I	3
AI 122	Cooperative Education II	1
AI 106	Automotive Brake Systems	3
AI 103	Automotive Engine Diagnosis and Repair	4
	credits:	14
<i>Summer</i>	<i>Semester 3</i>	
AI 123	Cooperative Education III	1
	Math Elective	3
	credits:	4
<i>Second Year</i>	<i>Semester 4 (Fall)</i>	
EN 102	English Composition II	3
	Humanities Elective	3
AI 124	Cooperative Education IV	1
AI 105	Heating and Air Conditioning Diagnosis and Repair	3
AI 200	Engine Performance	5
	credits:	15
<i>Second Year</i>	<i>Semester 5 (Spring)</i>	
AI 208	Automotive Drivetrain Diagnosis and Repair	5
AI 206	Hybrid and Electric Vehicles	3
	Social Science Elective	3
AI 125	Cooperative Education V	1
	credits:	12
	Total Credits:	60

* This course is only offered during the Winter Intersession