

General Studies: Automotive Technology All-Brand

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:

- 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 103 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

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.

COURSE	COURSE TITLE	CREDITS
<i>First Year</i>	<i>Semester 1 (Fall)</i>	
AI 100	Automotive Fundamentals	3
AI 102	Automotive Electrical Fundamentals	5
AI 121	Cooperative Education I	1
CS 100	Computers and Technology	3
CT 100	Critical Thinking	3
	credits:	15
<i>First Year</i>	<i>Semester 2 (Spring)</i>	
AI 204*	Automotive Suspension Systems	3
AI 122	Cooperative Education II	1
EN 101	English Composition I	3
AI 106	Automotive Brake Systems	3
AI 103	Automotive Engine Diagnosis and Repair	4
	credits:	14
<i>First Year</i>	<i>Semester 3 (Summer)</i>	
AI 123	Cooperative Education III	1
	Math Elective	3
	credits:	4
<i>Second Year</i>	<i>Semester 4 (Fall)</i>	
AI 124	Cooperative Education IV	1
EN 102	English Composition II	3
	Humanities Elective	3
AI 200	Engine Performance	5
AI 105	Heating and Air Conditioning Diagnosis and Repair	3
	credits:	15
<i>Second Year</i>	<i>Semester 5 (Spring)</i>	
AI 202	Manual transmission and Drive Lines	3
AI 203	Automatic Transmissions	3
AI 206	Hybrid and Electric Vehicles	3
	Social Science Elective	3
	credits:	12
	Total Credits:	60

* This course is only offered during the Winter Intersession