

Automotive Technology

BMW

Associate in Science

Effective starting Fall 2025

DIVISION OF AUTOMOTIVE TECHNOLOGY

The BMW Associate Degree Program (ADP) 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 BMW products at the MassBay Automotive Technology Center. Students are also required to work at a BMW dealership as part of the cooperative education phase of their training. The BMW Program is a collaborative effort between MassBay Community College and BMW. The College retains academic and administrative responsibility for the program and is certified by the Automotive Service Excellence Education Foundation (ASEEF) in all eight performance areas.

Upon completion, the associate in science degree in [Automotive Technology](#) with a concentration in BMW is awarded.

ADMISSION REQUIREMENTS

Minimum eligibility for admission to this program includes:

- Completion of placement tests
- Valid driver's license (May be subject to employer review)

PROGRAM FOOTNOTES

Math Elective: Any 3-credit 100 level mathematics courses 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

COURSE	COURSE TITLE	CREDITS
<i>First Year</i>	<i>Semester 1 (Fall)</i>	
AB 100	Automotive Fundamentals	4
AB 102	Automotive Electrical Fundamentals	4
AB 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>	
AB 122	Cooperative Education II	1
EN 101	English Composition I	3
AB 103	Automotive Engine Diagnostic and Repairs	5
AB 106	Automotive Brake Systems	3
	credits:	12
<i>Summer</i>	<i>Semester 3</i>	
AB 204	Auto Suspension Systems	3
AB 123	Cooperative Education III	1
	Math Elective	3/4
	credits:	7/8
<i>Second Year</i>	<i>Semester 4 (Fall)</i>	
AB 124	Cooperative Education IV	1
EN 102	English Composition II	3
	Humanities Elective	3
AB 200	Advanced Engine Performance	4
AB 201	Electronics Fuel and Ignition Systems	4
	credits:	15
<i>Second Year</i>	<i>Semester 5 (Spring)</i>	
AB 105*	Heating and Air Conditioning Theory	3
AB 205	Automotive Transmissions, Manual Transmission, and Drive Systems	5
AB 208	Advanced Automotive Electronics	3
AB 125	Cooperative Education V	1
	Social Science Elective	3
	credits:	15
	Total Credits:	64/65

* This course is only offered during the Winter Intersession