

# Automotive Technology

## Toyota/Lexus

### Associate in Science

#### DIVISION OF AUTOMOTIVE TECHNOLOGY

The Toyota Technical Education Network (T-TEN) program is designed to provide the technical competence and professionalism needed to become a dealership technician. The program involves academic as well as automotive lecture/ laboratory instruction focusing on Toyota/ Lexus products. Students are also required to work at an approved dealership as part of the cooperative education phase of their training. The T-TEN Program is a collaborative effort between MassBay Community College and Toyota. 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.

Students may also earn technical course credits from the University of Toyota/Lexus College.

Upon completion, the Associate in Science Degree in Automotive Service Technology with a concentration in Toyota (T-TEN) is awarded.

#### ADMISSION REQUIREMENTS

Minimum eligibility for admission to this program includes:

- Placement into EN 098 Fundamentals of Composition II or completion of EN 090 Fundamentals of Composition I
- MassBay placement into Intermediate Algebra MA 098 or completion of Introductory Algebra MA 095
- Valid driver's license (May be subject to dealership review of driving record and drug testing).

#### PROGRAM FOOTNOTES

##### Math Elective:

Any 3 or 4 credit 100 college level mathematics course or higher

##### Humanities Electives:

Art, Communication, English (EN 103 or higher), Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Sign Language, Theater Arts

##### Social Science Electives:

Anthropology, Economics, Geography, Government, History, Law, Psychology, Sociology

Competency in mathematics is a MassBay graduation requirement.

Prior to graduation, students must demonstrate competency at 100-level math. This may be accomplished by an appropriate placement test score or completion of any 100-level mathematics course or higher, except mathematics courses with a MAC prefix.

COURSE	COURSE TITLE	CREDITS
<i>Semester 1</i> <i>Fall</i>		
AT 101	Introduction to Automotive Service	4
AT 102	Automotive Electrical Fundamentals	4
AT 208	Advanced Electrical Systems and Diagnosis	5
CS 100	Computers and Technology	3
		<b>credits:</b>
		16
<i>Semester 2</i> <i>Spring</i>		
AT 114	Automotive Brake Systems	4
AT 116	Suspension, Steering, and Handling	4
AT 120	Cooperative Education I	1
EN 101	Freshman English I	3
		Math Elective
		3/4
		<b>credits:</b>
		15
<i>Semester 3</i> <i>Summer</i>		
AT 220	Cooperative Education II	1
AT 113	Engine Diagnosis and Repair	5
AT 212	Automotive Air Conditioning & Climate Control	4
		<b>credits:</b>
		10
<i>Semester 4</i> <i>Fall</i>		
AT 207	Engine Control Systems I	4
AT 209	Engine Control Systems II	4
AT 230	Cooperative Education III	1
EN 102	Freshman English II	3
CT 100	Critical Thinking	3
		<b>credits:</b>
		15
<i>Semester 5</i> <i>Spring</i>		
AT 219	Manual Transmission and Drive Systems	4
AT 205	Automatic Transmission: Fundamentals and Diagnosis	4
AT 240	Cooperative Education IV	1
		Humanities/Social Science Elective
		3
		Social Science Elective
		3
		<b>credits:</b>
		15
		<b>Total Credits:</b>
		<b>71/72</b>