

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 state-of-the-art Toyota/Lexus dealership as part of the implementation of the T-TEN Program is a collaborative effort of MassBay Community College and Toyota. The College has the academic and administrative responsibility for the program which is certified by the National Automotive Technicians Education Foundation (NATEF) 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

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 109 | Technician Portfolio TPORT | 1 |
| CS 100 | Computers and Technology | 3 |
| MAC 101 | Technical Math | 3 |
| CT 100 | Critical Thinking | 3 |
| | | credits: |
| | | 18 |
| <i>Semester 2</i> | | <i>Spring</i> |
| AT 113 | Engine Diagnosis and Repair | 4 |
| AT 114 | Automotive Brake Systems | 4 |
| AT 116 | Suspension, Steering, and Handling | 3 |
| EN 101 | Freshman English I | 3 |
| | Humanities Elective | 3 |
| | | credits: |
| | | 17 |
| <i>Semester 3</i> | | <i>Summer</i> |
| AT 120 | Cooperative Education I | 3 |
| | | credits: |
| | | 3 |
| <i>Semester 4</i> | | <i>Fall</i> |
| AT 213 | Hybrid Vehicle General Service | 1 |
| AT 205 | Automotive Transmission & Drive Systems | 6 |
| AT 207 | Engine Control Systems I | 5 |
| EN 102 | Freshman English II | 3 |
| | Humanities Elective | 3 |
| | | credits: |
| | | 18 |
| <i>Semester 5</i> | | <i>Spring</i> |
| AT 208 | Body Electrical Diagnosis | 3 |
| AT 209 | Engine Control Systems II | 3 |
| AT 212 | Automotive Air Conditioning & Climate Control | 3 |
| AT 220 | Cooperative Education II | 3 |
| | Social Science Elective | 3 |
| | Social Science Elective | 3 |
| | | credits: |
| | | 18 |
| | | Total Credits: |
| | | 74 |