Automotive Technology
BMW
Associate in Science

**DIVISION OF TRANSPORTATION & ENERGY**

The BMW Associate Degree Program (ADP) is designed to provide the technical competence and professionalism needed to become a dealership technician. The BMW ADP 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 ADP is a collaborative effort between MassBay Community College and BMW. The College retains academic and administrative responsibility for the BMW ADP and certification is in process by the National Automotive Technicians Education Foundation (NATEF) in all eight performance areas.

Upon successful 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:
- MassBay placement into College Writing (WR 100) or completion of Intro to Language (LV 090)
- MassBay placement into Introductory Algebra (MA 095) or completion of Basic Math Studies (MA 090)
- Valid driver's license
  (May be subject to dealership review of driving record and drug testing)

**PROGRAM FOOTNOTES**

**Humanities Electives:** Art, Communications, Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Oral Communication, Sign Language, Theater Arts

**Social Science Electives:** Anthropology, Geography, History, Economics, Government, Law and Society (LA 230), Psychology, Sociology

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<tr>
<th>COURSE</th>
<th>COURSE TITLE</th>
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<tbody>
<tr>
<td>Semester 1</td>
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<tr>
<td>AB 100</td>
<td>Automotive Fundamentals</td>
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<tr>
<td>AB 102</td>
<td>Automotive Electrical Fundamentals</td>
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<tr>
<td>CS 100</td>
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<td>MAC 101</td>
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<tr>
<td>CT 100</td>
<td>Critical Thinking</td>
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<td>credits:</td>
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| Semester 2 |                                    |         |
| AB 103   | Automotive Engine Diagnostic and Repairs | 5       |
| AB 105   | Heating and Air Conditioning Theory  | 3       |
| AB 106   | Automotive Brake Systems            | 3       |
| EN 101   | Freshman English I                  | 3       |
| SF 131   | Oral Communication                  | 3       |
|          | credits:                            | 17      |

| Semester 3 | Summer (12 weeks)                  |         |
| AB 121   | Cooperative Education I             | 3       |
|          | credits:                            | 3       |

| Semester 4 |                                    |         |
| AB 200   | Advanced Engine Performance         | 5       |
| AB 205   | Automotive Transmissions, Manual Transmission, and Drive Systems | 6       |
| EN 102   | Freshman English II                 | 3       |
|          | Humanities Elective                 | 3       |
|          | credits:                            | 17      |

| Semester 5 |                                    |         |
| PS 260   | Psychology In Business and Industry | 3       |
| AB 201   | Electronics Fuel and Ignition Systems | 4       |
| AB 204   | Auto Suspension Systems             | 4       |
| AB 208   | Advanced Automotive Electronics     | 3       |
|          | Social Science Elective             | 3       |
|          | credits:                            | 17      |

**Total Credits:** 72