## Automotive Technology Chrysler (FCA)

Associate in Science

## **DIVISION OF AUTOMOTIVE TECHNOLOGY**

The MOPAR Career Automotive program (MOPAR CAP) is designed to provide the technical competence and professional level training of the incoming dealership technicians. The MOPAR CAP program involves academics as well as automotive lecture automotive lecture/ laboratory instruction focusing on Fiat Chrysler Automobiles LLC. (FCA) products at the MassBay Automotive Technology Center. Students are also required to work at a Jeep, Chrysler, Dodge, RAM, Fiat, Alfa Romeo dealership as part of the cooperative education phase of their training. The MOPAR CAP Program is a collaborative effort between MassBay Community College and FCA. The College retains academic and administrative responsibility for the program and is certified by the ASE Education Foundation in all eight performance areas.

Upon completion, the Associate in Science Degree in Automotive Technology with a concentration in Chrysler 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**

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.

First Year         Semester 1           AY 100         Fundamentals of Auto Technology         5           AY 110         Automotive Electricity         4           AY 109         Dealership Orientation         1           CS 100         Computers and Technology         3           CT 100         Critical Thinking         3           Credits:         16           First Year         Semester 2           AY 115         Cooperative Education I         2           AY 120         Automotive Electronics         3           AY 140         Automotive Brake Systems*         3           AY 170         Electronic Fuel and Engine Controls         4           EN 101         English Composition I         3           Credits:         15           First Year         Semester 3           AY 125         Cooperative Education II         3           AY 221         Heating A/C & Climate Control Systems         3           AY 230         Engine Performance         5           MA 105         Introduction to Statistics         3           AY 230         Engine Performance         5           MA 215         Cooperative Educati	COURSE	COURSE TITLE	CREDITS
AY 100         Technology         5           AY 110         Automotive Electricity         4           AY 109         Dealership Orientation         1           CS 100         Computers and Technology         3           CT 100         Critical Thinking         3           Credits:         16           First Year         Semester 2           AY 115         Cooperative Education I         2           AY 120         Automotive Electronics         3           AY 140         Automotive Brake Systems*         3           Credits:         15           Electronic Fuel and Engine Controls           Credits:         15           First Year         Semester 3           AY 125         Cooperative Education II         3           AY 221         Systems         3           AY 245         Engine Diagnosis and Repair         4 </td <td>First Year</td> <td>Semester 1</td> <td></td>	First Year	Semester 1	
AY 110         Automotive Electricity         4           AY 109         Dealership Orientation         1           CS 100         Computers and Technology         3           CT 100         Critical Thinking         3           Credits:         16           First Year         Semester 2           AY 115         Cooperative Education I         2           AY 120         Automotive Electronics         3           AY 140         Automotive Brake Systems*         3           AY 170         Electronic Fuel and Engine Controls         4           EN 101         English Composition I         3           Credits:         15           First Year         Semester 3	AY 100		5
AY 109         Dealership Orientation         1           CS 100         Computers and Technology         3           CT 100         Critical Thinking         3           Credits:         16           First Year         Semester 2           AY 115         Cooperative Education I         2           AY 120         Automotive Electronics         3           AY 140         Automotive Brake Systems*         3           AY 170         Electronic Fuel and Engine Controls         4           EN 101         English Composition I         3           Credits:         15           First Year         Semester 3           AY 225         Cooperative Education II         3           AY 221         Heating, A/C & Climate Control Systems         3           AY 230         Engine Performance         5           MA 105         Introduction to Statistics         3           Or           MA 106         Quantitative Reasoning         3           Credits:         14           Semester 4           AY 215         Cooperative Education III         3           AY 245         English Co	AV 110		4
CS 100 Computers and Technology 3 CT 100 Critical Thinking 3  Credits: 16  First Year Semester 2  AY 115 Cooperative Education I 2  AY 120 Automotive Electronics 3  AY 140 Automotive Brake Systems* 3  AY 170 Electronic Fuel and Engine Controls EN 101 English Composition I 3  Credits: 15  First Year Semester 3  AY 125 Cooperative Education II 3  AY 221 Systems  AY 230 Engine Performance 5  MA 105 Introduction to Statistics 3  Or  MA 106 Quantitative Reasoning 3  Credits: 14  Second Year Semester 4  AY 215 Cooperative Education III 3  AY 245 Engine Diagnosis and Repair 4  CO 131 Oral Communications 3  EN 102 English Composition II 3  AY 253 Ay 253 Ay 253 Ay 253 Ay 254  AY 255 Semester 5  AY 270 Steering & Suspension Systems 3  AY 225 Cooperative Education IV 3  PS 260 Organizational Psychology 3  Credits: 15			
CT 100 Critical Thinking 3  First Year Semester 2  AY 115 Cooperative Education I 2  AY 120 Automotive Electronics 3  AY 140 Automotive Brake Systems* 3  AY 170 Electronic Fuel and Engine Controls English Composition I 3  First Year Semester 3  AY 125 Cooperative Education II 3  AY 221 Heating, A/C & Climate Control Systems 3  AY 230 Engine Performance 5  MA 105 Introduction to Statistics 3  Or  MA 106 Quantitative Reasoning 3  Credits: 14  Second Year Semester 4  AY 215 Cooperative Education III 3  AY 245 Engine Diagnosis and Repair 4  CO 131 Oral Communications 3  EN 102 English Composition II 3  Second Year Semester 5  AY 212 Differential and Driveline Repair 2  AY 253 Automatic Transmissions, and Drive Systems 3  AY 270 Steering & Suspension Systems 3  AY 225 Cooperative Education IV 3  PS 260 Organizational Psychology 3  Credits: 15		•	·
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First Year  AY 115  Cooperative Education I  AY 120  Automotive Brake Systems*  AY 140  Automotive Brake Systems*  AY 170  Electronic Fuel and Engine Controls  EN 101  English Composition I  3  AY 125  Cooperative Education II  AY 221  Heating, A/C & Climate Control Systems  AY 230  Engine Performance  MA 105  Introduction to Statistics  or  MA 106  Quantitative Reasoning  3  AY 215  Cooperative Education III  3  AY 215  AY 216  AY 217  Semester 4  AY 217  AY 218  Second Year  Semester 4  AY 219  Credits:  14  Second Year  Semester 4  AY 215  Cooperative Education III  AY 245  Engine Diagnosis and Repair  CO 131  Oral Communications  EN 102  English Composition II  AY 245  Semester 5  AY 212  Differential and Driveline Repair  Automatic Transmissions, Manual Transmissions, Manual Transmission, and Drive Systems  AY 270  Steering & Suspension Systems  AY 270  Steering & Suspension Systems  AY 225  Cooperative Education IV  3  Credits:  15	C1 100		_
AY 115 Cooperative Education I 2 AY 120 Automotive Electronics 3 AY 140 Automotive Brake Systems* 3 AY 170 Electronic Fuel and Engine Controls	<b>5</b> :		16
AY 120 Automotive Electronics  AY 140 Automotive Brake Systems*  AY 170 Electronic Fuel and Engine Controls  EN 101 English Composition I  Credits:  First Year Semester 3  AY 125 Cooperative Education II  AY 221 Heating, A/C & Climate Control Systems  AY 230 Engine Performance  MA 105 Introduction to Statistics  Or  MA 106 Quantitative Reasoning  AY 215 Cooperative Education III  Second Year Semester 4  AY 215 Cooperative Education III  3 AY 245 Engine Diagnosis and Repair  CO 131 Oral Communications  EN 102 English Composition II  Second Year Semester 5  AY 212 Differential and Driveline Repair  AY 253 Manual Transmissions, Manual Transmissions, and Drive Systems  AY 270 Steering & Suspension Systems  AY 225 Cooperative Education IV  PS 260 Organizational Psychology  3 credits:  15			
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AY 170  Electronic Fuel and Engine Controls  EN 101  English Composition I  Credits:  First Year  AY 125  Cooperative Education II  AY 221  Heating, A/C & Climate Control Systems  AY 230  Engine Performance  MA 105  Introduction to Statistics  Or  MA 106  Quantitative Reasoning  Credits:  3  AY 215  Cooperative Education III  3  AY 221  AY 215  Cooperative Education III  3  AY 245  Engine Diagnosis and Repair  CO 131  Oral Communications  EN 102  English Composition II  3  Credits:  3  Credits:  13  Second Year  Semester 5  AY 212  Differential and Driveline Repair  Automatic Transmissions, Manual Transmissions, Manual Transmission, and Drive Systems  AY 270  Steering & Suspension Systems  AY 225  Cooperative Education IV  3  AY 225  Cooperative Education IV  3  Credits:  15			_
Engine Controls  EN 101 English Composition I  Credits: 15  First Year Semester 3  AY 125 Cooperative Education II 3  AY 221 Heating, A/C & Climate Control Systems  AY 230 Engine Performance 5  MA 105 Introduction to Statistics 3  Or  MA 106 Quantitative Reasoning 3  Credits: 14  Second Year Semester 4  AY 215 Cooperative Education III 3  AY 245 Engine Diagnosis and Repair 4  CO 131 Oral Communications 3  EN 102 English Composition II 3  Second Year Semester 5  AY 212 Differential and Driveline Repair 2  AY 253 Automatic Transmissions, And Drive Systems  AY 270 Steering & Suspension Systems 3  AY 225 Cooperative Education IV 3  PS 260 Organizational Psychology 3	AY 140		3
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AY 215 Cooperative Education III 3  AY 245 Engine Diagnosis and Repair 4  CO 131 Oral Communications 3  EN 102 English Composition II 3  credits: 13  Second Year Semester 5  AY 212 Differential and Driveline Repair 2  Automatic Transmissions, Manual Transmission, and Drive Systems  AY 270 Steering & Suspension Systems 3  AY 225 Cooperative Education IV 3  PS 260 Organizational Psychology 3  credits: 15		credits:	14
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Credits: 13  Second Year Semester 5  AY 212 Differential and Driveline Repair 2  Automatic Transmissions, Manual Transmission, and Drive Systems  AY 270 Steering & Suspension Systems 3  AY 225 Cooperative Education IV 3  PS 260 Organizational Psychology 3  Credits: 15	CO 131	Oral Communications	3
Second Year Semester 5  AY 212 Differential and Driveline Repair 2  Automatic Transmissions, Manual Transmission, and Drive Systems  AY 270 Steering & Suspension Systems 3  AY 225 Cooperative Education IV 3  PS 260 Organizational Psychology 3  credits: 15	EN 102	English Composition II	3
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AY 253 Automatic Transmissions, Manual Transmission, and Drive Systems  AY 270 Steering & Suspension Systems  AY 225 Cooperative Education IV 3 PS 260 Organizational Psychology 3 credits: 15	Second Year	Semester 5	
AY 253 Manual Transmission, and Drive Systems  AY 270 Steering & Suspension Systems 3  AY 225 Cooperative Education IV 3  PS 260 Organizational Psychology 3  credits: 15	AY 212	Differential and Driveline Repair	2
AY 225 Cooperative Education IV 3 PS 260 Organizational Psychology 3 credits: 15	AY 253	Manual Transmission, and Drive	4
PS 260 Organizational Psychology 3  credits: 15	AY 270		3
credits: 15	AY 225	Cooperative Education IV	3
0.04.137	PS 260	Organizational Psychology	3
Total Credits: 73		credits:	15
		Total Credits:	73

<sup>\*</sup> This course is only offered during the Winter Intersession