



Mopar College Automotive Program (MoparCAP)

Associate in Applied Arts and Sciences (AAAS)

Planning Guide 2017-2018

EPC 7162

Program Information:

Length of Program: 167-172 Credits, 8 quarters

Completion Award: A.A.A.S.

Enrollment: Fall, Winter and Summer

Approximate Quarterly Costs:

Uniform Fee \$50

Tools and Equipment (estimate, all quarters) \$4000

Additional Instructional Fees \$25-\$85

(in addition to tuition, books and parking)

Website: www.shoreline.edu/auto

Program Advisor:

Rob Allred

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Program Description:

The Associate in Applied Arts and Sciences degree is designed to provide students with the knowledge and skills leading to an entry-level position as a MoparCAP Technician. Students interested in advancement are encouraged to pursue a four-year baccalaureate degree using the Engineering Associate in Science (AS-DTA) degree planning guide.

Mopar College Automotive Program (MoparCap)—What is it?

Shoreline Community College offers an Associate degree in Applied Arts and Science for students who are interested in entering the automotive service industry. The Mopar College Automotive Program (MoparCAP) provides students with the fundamental skills to succeed in the workplace along with valuable hands-on experience. Students alternate quarters between classroom instruction and paid dealership training. As students progress through the curriculum, they learn about the major automobile components and systems, including brakes, suspension, emissions, transmissions, electrical systems, heating and air conditioning, power trains and engine management systems. Students develop skills in automotive diagnostics, tune-ups and repairs. Students will also develop an understanding of automotive service business principles as they apply to the service technician. In their internship placement, students work under the guidance of a master technician at a sponsoring MoparCAP Dealership. These paid internships give students the opportunity to integrate their learning and further develop their skills in service technology.

Program Outcomes:

Students who successfully complete this program **-by achieving a grade of 2.0 or better for each individual course in the program-** should be able to:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures.
2. Identify, inspect, disassemble and assemble basic components of automotive power plants.
3. Apply knowledge of the function, construction, operation troubleshooting and servicing of disc, drum and ABS brake systems, steering, suspension and wheel alignment.
4. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection and emission systems.
5. Apply understanding of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems.
6. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive manual and automatic transmissions and transaxles.
7. Test, service and repair heating and air-conditioning systems.

Career Opportunities—What can I do with a Degree in Mopar College Automotive Program (MoparCAP)?

The demand for dealer-trained technicians should remain strong over the next decade. Employment opportunities exist as a MoparCAP Technician. With additional experience and education, many technicians can become a Parts or Service Manager: some may seek positions in sales, management or open their own related business.

Potential employers include: Upon completion, graduates may be hired by a new car dealership. For more, please visit career information and resources at www.shoreline.edu/acc/CareerCounseling.aspx.

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Program Prerequisites:

- A high school diploma or GED
- Instructor Permission
- Automotive Skills Test
- Valid Driver’s License
- Proof of Insurability
- All dealers require drug testing
- Instructor Interview

Courses marked with an * are the General Education/Related Instruction requirements for this program.

A.A.A.S Degree—167-172 Credits

GENERAL EDUCATION CORE REQUIREMENTS 15-20 Credits			
Courses	QTR	GR	CR
ENGL& 101* English Composition I <i>or</i> BTWRT 215* Bus. Communications			5
Multicultural Understanding: Bus 103 Multiculturalism in the Workplace <i>or</i> MCS 105 Intro to Multicultural Studies			3 5
Quantitative/Symbolic Reasoning: Bus 102* Business Mathematics <i>or</i> Math 70* Preparation for Algebra			5
Human Relations: BUS 104 Human Relations in Business <i>or</i> BUS 105 Essentials of Human Relations <i>or</i> CMST&101 Intro to Communication			

RECOMMENDATIONS:

AUTOMOTIVE CORE REQUIREMENTS 152 Credits			
Courses	QTR	GR	CR
AUTOT 160 Fund of Auto Serv Traing			
AUTOT 161 Engine Repair			
AUTOT 163 Brakes & Suspension			
AUTOT 164 Manu Gear Trains/Transax			
AUTOT 165 Engine Management and Emissions Systems			
AUTOT 166 Electrical Systems			
AUTOT 167 Auto Trans/Transaxles			
AUTOT 168 Heating and Air Con			
AUTOT 291 Coop Dealer Exper I			
AUTOT 292 Coop Dealer Exper II			
AUTOT 293 Coop Dealer Exper III			
AUTOT 294 Coop Dealer Exp IV			

<u>APPROVAL TO GRADUATE</u>	
_____ <i>Student Name & SID</i>	_____ <i>Date</i>
_____ <i>Faculty Advisory</i>	_____ <i>Date</i>
_____ <i>Division Dean</i>	_____ <i>Date</i>
_____ <i>Credential Approval</i>	_____ <i>Date</i>

Note: Every effort has been made to ensure the accuracy of the information in this publication. However, the information is subject to change without notice and final career decisions are the responsibility of the student.