



# Automotive Mechanics Technology A.S. Degree

The Automotive Mechanics Technology Program emphasizes developing skills required for efficient diagnosis, maintenance, and repair of the automobile and its components. Upon successful completion of the program, students are qualified for placement as technicians in the auto industry.

**Total Units: 63-65**

## First Year

### Semester 1

16-17 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
<b>AMT 300</b> <sup>Z</sup> Automotive Fundamentals and Shop Procedures	4		F, S	CRC Area III(b)
<b>AMT 306</b> <sup>Z</sup> Small Engine Repair	3		F(may also be offered in S)	
<b>AMT 314</b> <sup>Z</sup> Wheel Alignment	3	Advisory: AMT 300	F(may also be offered in S)	
<b>CRC Area II(a)-Writing Competency</b> <sup>Z</sup>	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(a)
<b>CRC Area II(b)-Math Competency</b> <sup>Z</sup>	3-4	Recommend meeting with a counselor	F, S, Su	CRC Area II(b)

<sup>Z</sup> At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

### Semester 2

17-18 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
<b>AMT 301</b> <sup>Z</sup> Automotive Service Management	3		F(P), S(P)	
<b>AMT 303</b> <sup>Z</sup> Automotive Electrical & Electronic Systems	4		F, S	
<b>AMT 304</b> <sup>Z</sup> Automotive Manual Drive Train and Axles	3	Advisory: AMT 300	S(may also be offered in F)	
<b>AMT 326</b> <sup>Z</sup> Automotive Heating and Air Conditioning	3	Pre-req: AMT 303	S(may also be offered in F)	
<b>CRC Area IV-Natural Science</b> <sup>Z</sup>	3		F, S, Su	CRC Area IV

## Career

### Options/Outlook:

Master mechanics repair virtually any part on the vehicle or specialize in the transmission system. Tasks include test-drive vehicles and test components/systems using equipment such as infrared engine analyzers, compression gauges, and computerized diagnostic devices; test and adjust repaired systems to meet manufacturers' performance specifications; repair, reline, replace, & adjust brakes; review work orders and discuss work with supervisors; confer with customers to obtain descriptions of vehicle problems and to discuss work to be performed.

### A sample of reported job titles:

ASE Master Mechanic (Automotive Service Excellence Master Mechanic), Auto Technician, Automotive Drivability Technician, Automotive Mechanic (Auto Mechanic), Automotive Service Technician, Certified ASE Master Automotive Technician (Certified Automotive Service Excellence Master Automotive Technician), Master Automotive Technician, Master Technician, Mechanic, Transmission Rebuilder

### Projected job openings in California (2018-2028):

7,710

### Projected job openings in California:

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>CRC Area III(a)-Physical Edu Activity</b> Z	1-2		F, S, Su	CRC Area III(a)

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## Year 2

### Semester 3

15 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>AMT 316</b> Z Automotive Brakes	3	Advisory: AMT 300	F, S	
<b>AMT 321</b> Z Advanced Automotive Electrical & Hybrid Vehicle Systems	3	AMT 303	S(may also be offered in F)	
<b>AMT 322</b> Z Engine Repair	3	Advisory: AMT 300 & 306	S(may also be offered in F)	
<b>CRC Area V(a)-American Institutions</b> Z	3		F, S, Su	CRC Area V(a)
<b>CRC Area V(b)-Soc &amp; Beh Sciences and VI-Ethnic/Multicultural Studies</b> <sup>1</sup> Z	3		F, S, Su	CRC Area V(b) & VI

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<sup>1</sup> Suggest taking a course the meets both Area V(b) and Area VI.

### Semester 4

15 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>AMT 310</b> Z Engine Performance	3	AMT 300, 306, or 322; Advisory: AMT 303	F, S	
<b>AMT 330</b> Z Automatic Transmissions/Transaxles	3	Advisory: AMT 300 & 304	F, S	
<b>AMT 332</b> Z Automotive Computerized Controls	3	AMT 303; Advisory: AMT 310	S(may also be offered in F)	

-1%

## Median Salary in California (2021):

Median wage: \$50,740/yr

### Source:

<https://www.onetonline.org/link/summary/49-3023.00>

### Transfer note:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

## This program map also meets the requirement for:

### the Certificate of Achievement in:

Automotive Brakes

Automotive Mechanics Technology

Automotive Transmissions/Transaxles

Automotive Suspension & Steering

Automotive Engine Performance

Automotive Electrical Systems

### the Certificate of Proficiency in:

Small Engine Repair

Automotive Heating and Air Conditioning

Automotive Engine Repair

Automotive Emission Control

## Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>AMT 324</b> <sup>Z</sup> Electronic Fuel Injection	3	AMT 303; Advisory: AMT 310	Check Class Schedule for offering	
<b>CRC Area I-Humanities</b> <sup>Z</sup>	3		F, S, Su	CRC Area I

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<sup>^</sup>You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

\*(O) = online available (P) = partially online

complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

## About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

## Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.