



# Automotive Mechanics Technology A.S. Degree - CalGETC

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: 72-74**

## First Year

### Semester 1

20 Units

| COURSE   | UNITS | PRE-REQS <sup>^</sup> | SEMESTERS OFFERED*          | GE AREA          |
|--|-------|-----------------------|-----------------------------|------------------|
| <b>AMT 300</b> <sup>Z</sup><br>Automotive Fundamentals and Shop Procedures | 4     |                       | F, S                        |                  |
| <b>AMT 303</b> <sup>Z</sup><br>Automotive Electrical & Electronic Systems  | 4     |                       | F, S                        |                  |
| <b>AMT 306</b> <sup>Z</sup><br>Small Engine Repair                         | 3     |                       | F(may also be offered in S) |                  |
| <b>CalGETC Area 1A-English Composition</b> <sup>Z</sup>                    | 3     |                       | F, S, Su                    | Cal-GETC Area 1A |
| <b>CalGETC Area 1B-Critical Thinking &amp; Composition</b> <sup>Z</sup>    | 3     |                       | F, S, Su                    | Cal-GETC Area 1B |
| <b>CalGETC Area 5B-Biological Sciences</b> <sup>Z</sup>                    | 3     |                       | F, S, Su                    | Cal-GETC Area 5B |

<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

21 Units

## 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:

-1%

## Median Salary in California (2021):

Median wage: \$50,740/yr

## Source:

<https://www.onetonline.org/link/summary/43023.00>

## 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

| COURSE  | UNITS | PRE-REQS^                          | SEMESTERS OFFERED*          | GE AREA          |
|---|-------|------------------------------------|-----------------------------|------------------|
| <b>AMT 301</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span><br>Automotive Service Management                           | 3     |                                    | F(P), S(P)                  |                  |
| <b>AMT 316</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span><br>Automotive Brakes                                       | 3     | Advisory: AMT 300                  | F, S                        |                  |
| <b>AMT 322</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span><br>Engine Repair   | 3     | Advisory: AMT 300 & 306            | S(may also be offered in F) |                  |
| <b>AMT 326</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span><br>Automotive Heating and Air Conditioning                 | 3     | Pre-req: AMT 303                   | S(may also be offered in F) |                  |
| <b>CalGETC Area 2- Mathematical Concepts &amp; Quantitative Reasoning</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span> | 3     | Recommend meeting with a counselor | F, S, Su                    | Cal-GETC Area 2  |
| <b>CalGETC Area 6-Ethnic Studies</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span>                                      | 3     |                                    | F, S, Su                    | Cal-GETC Area 6  |
| <b>CalGETC Area 3B- Humanities</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span>  | 3     |                                    | F, S, Su                    | Cal-GETC Area 3B |

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## Year 2

### Semester 3

18-20 Units

| COURSE  | UNITS | PRE-REQS^         | SEMESTERS OFFERED*          | GE AREA |
|---|-------|-------------------|-----------------------------|---------|
| <b>AMT 304</b> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Z</span><br>Automotive Manual Drive Train and Axles | 3     | Advisory: AMT 300 | S(may also be offered in F) |         |

| COURSE   | UNITS | PRE-REQS <sup>^</sup>                         | SEMESTERS OFFERED*          | GE AREA          |
|--|-------|---|-----------------------------|------------------|
| <b>AMT 310</b> <b>Z</b><br>Engine Performance  | 3     | AMT 300, 306, or 322;<br>Advisory:<br>AMT 303 | F, S                        |                  |
| <b>AMT 314</b> <b>Z</b><br>Wheel Alignment   | 3     | Advisory:<br>AMT 300                          | F(may also be offered in S) |                  |
| <b>AMT 321</b> <b>Z</b><br>Advanced Automotive Electrical & Hybrid Vehicle Systems <b>or</b> | 3     | AMT 303                                       | S(may also be offered in F) |                  |
| <b>AMT 328</b> <b>Z</b><br>Light Duty Diesel Engine Performance <b>or</b>                    | 3     |   |                             |                  |
| <b>AMT 340</b> <b>Z</b><br>Emission Control Inspection and Repair                            | 5     |   |                             |                  |
| <b>CalGETC Area 1C-Oral Communication &amp; Critical Thinking</b> <b>Z</b>                   | 3     |   | F, S, Su                    | Cal-GETC Area 1C |
| <b>CalCETC Area 4-Social &amp; Behavioral Sciences</b> <sup>1</sup> <b>Z</b>                 | 3     |   | F, S, Su                    | Cal-GETC Area 4  |

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<sup>1</sup> Two Area 4 courses must be from different disciplines.

## Semester 4

13 Units

| COURSE  | UNITS | PRE-REQS <sup>^</sup>            | SEMESTERS OFFERED*                | GE AREA |
|---|-------|----------------------------------|-----------------------------------|---------|
| <b>AMT 324</b> <b>Z</b><br>Electronic Fuel Injection          | 3     | AMT 303;<br>Advisory:<br>AMT 310 | Check Class Schedule for offering |         |
| <b>AMT 330</b> <b>Z</b><br>Automatic Transmissions/Transaxles | 3     | Advisory:<br>AMT 300 & 304       | F, S                              |         |

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 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.

| COURSE  | UNITS | PRE-REQS^                        | SEMESTERS OFFERED*          | GE AREA          |
|---|-------|----------------------------------|-----------------------------|------------------|
| <b>AMT 332</b> <b>Z</b><br>Automotive Computerized Controls | 3     | AMT 303;<br>Advisory:<br>AMT 310 | S(may also be offered in F) |                  |
| <b>CalGETC Area 3A-Arts</b> <b>Z</b>                        | 3     |                                  | F, S, Su                    | Cal-GETC Area 3A |
| <b>CalGETC Area 5C-Lab</b> <b>Z</b>                         | 1     |                                  | F, S, Su                    | Cal-GETC Area 5C |

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^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

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Counselor Contact: Alejandra Tovar | Faculty Contact: Brian Noel