



Automotive Technology A.S. Degree

This program roadmap 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 roadmap is not a guarantee of course availability or financial aid applicability.

Catalog: 2024-25

GE Pattern: local AA/AS

Total Units: 72

Start Term: Spring

First Year

Semester 1 (Spring)

15 Units

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|------|---------------------------------|---|------|---------|
| RE | AT 100 ¹ | Technical Basics for the Automotive Professional | 3 | |
| Req | AT 105 | Mathematics for Automotive Technology | 3 | |
| Req | AT 110 | Automotive Brakes | 3 | |
| Req | AT 180 | Automotive Data Acquisition | 3 | |
| GE | ENGWR 300 / 480 ^H | College Composition | 3 | Ila WC |

¹ or AT 103

Semester 2 (Fall)

15 Units

| COURSE | TITLE | UNIT | GE AREA |
|----------|---------------------------------------|---|--|
| AT 130 | Manual Drive Trains and Axles | 3 | |
| AT 311 | Suspension and Steering Systems | 3 | |
| AT 313 | Automatic Transmission and Transaxles | 3 | |
| AT 314 | Automotive Engine Repair | 3 | |
| MATH 300 | Introduction to Mathematical Ideas | 3 | IIb MC |
| | AT 130 AT 311 AT 313 AT 314 | AT 130 Manual Drive Trains and Axles AT 311 Suspension and Steering Systems AT 313 Automatic Transmission and Transaxles AT 314 Automotive Engine Repair | AT 130 Manual Drive Trains and Axles 3 AT 311 Suspension and Steering Systems 3 AT 313 Automatic Transmission and Transaxles 3 AT 314 Automotive Engine Repair 3 |

Second Year

Semester 3 (Spring)

12 Units

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|------|--------|--|------|---------|
| Req | AT 181 | Electrical Fundamentals and Multimeter Basics | 3 | |
| Req | AT 310 | Heating and Air-Conditioning Systems | 3 | |
| Req | AT 330 | Automotive Electrical Systems | 3 | |
| Req | AT 331 | Advanced Automotive Electrical Systems | 3 | |

Semester 4 (Fall)

15 Units

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|------|--------|--|------|---------|
| Req | AT 333 | California State Smog Check Inspector Training | 6 | |
| Req | AT 332 | Engine Performance & Electronic Engine Controls | 6 | |

CAREER PATH

Career Options:

This degree prepares students for entry-level positions in the automotive industry.

Advising Notes:

• Students can substitute ESLW 340 for ENGWR 300/480.

Scheduling Notes:

- AT 330 is scheduled during the F^t 8
 weeks and AT 331 during the 2nd 8
 weeks in the spring, so they can be
 taken in the same semester in the
 spring.
- AT 333 is scheduled during the 1st 8 weeks and AT 332 during the 2nd 8 weeks in the fall, so they can be taken in the same semester in the fall.

Other Notes:

- This degree prepares students for all nine Automotive Service Excellence (ASE) certifications, including Advanced Engine Performance (L-1). It also fulfills the Bureau of Automotive Repair (BAR) requirements for CA State Smog Check Inspector and CA State Smog Check Repair Technician test candidates.
- At the end of the fourth semester, students qualify for the Automotive Technology certificate.
- This degree can be started in the fall as well. <u>See a counselor</u> to adjust the course work.

| CAT. | COURSE | TITLE | UNIT | GE AREA |
|------|---------------------|--|------|---------|
| RE | AT 298 ² | Work Experience in Automotive Technology | 2 | IIIb |
| GE | | any Area IIIa (PE Activity) course | 1 | IIIa |

²Only 1 unit of AT 298 is required in the major, but 2 units are required to fulfill GE area IIIb.

Third Year

Semester 5 (Spring)

15 Units

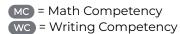
| CAT. | COURSE | TITLE | UNIT | GE AREA |
|------|--------|---|------|---------|
| GE | | any Area I (Humanities) course | 3 | I |
| GE | | any Area IV (Natural Sciences) course | 3 | IV |
| GE | | any Area Va (American Institutions) course | 3 | Va |
| GE | | any Area Vb (Social & Behavioral Sciences) course | 3 | Vb |
| GE | | any Area VI (Ethnic/Multicultural Studies) course | 3 | VI |

^H honors courses

| EXPLANATION OF CATEGORIES | | | |
|---------------------------|------------------------|--|--|
| RE | Restricted Elective | A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list | |
| Req | Required Core | A course that is required for this program | |
| GE | General Education | A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement | |

Graduation Requirement

A course that fulfills a specific graduation requirement which can be replaced by another course that meets the same graduation requirement.



Published April 13, 2024

 An internship (AT 298) is required as it opens up potential employment opportunities. Students can earn at least 1 unit for related paid or unpaid work experience including volunteer and internship positions through AT 298. This course also works toward satisfying GE Area IIIb. See the Work Experience website for more information.