



# Automotive Mechanics Technology (Ford ASSET) Certificate

The Ford Automotive Student Service Education Training (ASSET) Program is a two-year Associate's Degree program in Automotive Mechanics Technology. This program is designed to help students develop the skills necessary to efficiently and accurately maintain, diagnose, and service/repair all major systems of the automobile. Please refer to the [Program Handbook](#) for more information. Only students enrolled in the ASSET Program can enroll in Ford ASSET courses.

**Total Units: 53-60**

## First Year

### Semester 1

**13 Units**

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*
<b>AMT 370</b> <sup>(Z)</sup> Ford ASSET Automotive Fundamentals and Dealership Practices	4		F
<b>AMT 371</b> <sup>(Z)</sup> Ford ASSET Automotive Electrical/Electronic Systems	3		F
<b>AMT 372</b> <sup>(Z)</sup> Ford ASSET Automotive Brake Systems	3		F
<b>AMT 498</b> <sup>1</sup> <sup>(Z)</sup> Work Experience in Automotive Mechanics Technology	3		F, S, Su

<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](#).

<sup>1</sup> Enroll in a minimum of 3 units in AMT 498

<sup>2</sup> Suggestion: ENGWR 341 Intro to Technical & Professional Writing.

### Semester 2

**12 Units**

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*
<b>AMT 374</b> <sup>(Z)</sup> Ford ASSET Automotive Suspension and Steering	3	AMT 371	S
<b>AMT 375</b> <sup>(Z)</sup> Ford ASSET Automotive Wheel Alignment	3	AMT 371; Co-req: AMT 374	S
<b>AMT 376</b> <sup>(Z)</sup> Ford ASSET Automotive Heating and Air Conditioning	3	AMT 371	S
<b>AMT 498</b> <sup>1</sup> <sup>(Z)</sup> Work Experience in Automotive Mechanics Technology	3		F, S, Su

## 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 (2020-2030):

6,900

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<sup>1</sup> A minimum of 3 units of AMT 498

## Semester 3 (Summer)

9 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*
<b>AMT 130</b> <b>Z</b> Ford ASSET Advanced Automatic Transmission Diagnosis	1.5		Su
<b>AMT 378</b> Ford ASSET Automatic Transmissions/Transaxles	3	AMT 371	Su
<b>AMT 379</b> Ford ASSET Automotive Engine Repair	3	AMT 371	Su
<b>AMT 385</b> Ford ASSET Automotive Manual Drive Train and Axles	1.5	AMT 371	Su

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## Year 2

### Semester 4

10.5-14 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*
<b>AMT 381</b> <b>Z</b> Ford ASSET Electronic Engine Control	4	AMT 371	F
<b>AMT 382</b> <b>Z</b> Ford ASSET Gasoline Engine Performance	3	AMT 371	F
<b>AMT 383</b> <b>Z</b> Ford ASSET Advanced Gasoline Engine Performance	3	AMT 371	F
<b>AMT 498</b> <sup>1</sup> <b>Z</b> Work Experience in Automotive Mechanics Technology	0.5-4		F, S, Su

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<sup>1</sup> A minimum of 3 units in AMT 498.

## Projected job openings in California (2020-2030):

4% growth

## Median Salary in California (2021):

\$50,740/yr

## Source:

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

## This program map also meets the requirement for:

the **Certificate of Achievement** in:

Automotive Transmission/Transaxles (Ford ASSET)

Automotive Brakes (Ford ASSET)

Automotive Electrical Systems (Ford ASSET)

Automotive Engine Performance (Ford ASSET)

Automotive Heating & Air Conditioning (Ford ASSET)

Automotive Mechanics Technology (Ford ASSET)

Automotive Suspension & Steering (Ford ASSET)

Manual Drive Train & Axles (Ford ASSET)

the **Certificate of Proficiency** in:

Automotive Engine Repair (Ford ASSET)

## About this map:

## Semester 5

0.5-12 UNITS

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED <sup>*</sup>
<b>AMT 131</b> <sup>Z</sup> Ford ASSET Diesel Engine Performance	3	AMT 371	S
<b>AMT 340</b> <sup>Z</sup> Emission Control Inspection and Repair	5	AMT 371 & AMT 381 or current ASE certification in A-6 & A-8; Advisory: AMT 324 & 332.	S
<b>AMT 498</b> <sup>1</sup> <sup>Z</sup> Work Experience in Automotive Mechanics Technology	0.5-4		F, S, Su

<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](#).

<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.

<sup>\*</sup>(O) = online available (P) = partially online

<sup>1</sup> A minimum of 3 units in AMT 498.

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.

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Counselor Contact: Alejandra Tovar | Faculty Contact: Brian Noel