



# Automotive Mechanics Technology (Ford ASSET) A.S. Degree

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: 67-81**

## First Year

### Semester 1

14.5-18 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<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 Z</sup> Work Experience in Automotive Mechanics Technology	0.5-4		F, S, Su	CRC Area III(b)
<b>CRC Area II(a)- Writing Competency</b> <sup>2 Z</sup>	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(a)
<b>CRC Area III(a)- Physical Edu Activity</b> <sup>Z</sup>	1		F, S, Su	CRC Area III(a)

<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

15.5-19 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
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## 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

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<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	0.5-4		F, S, Su	CRC Area III(b)
<b>MUFHL 300</b> <sup>2</sup> <sup>Z</sup> Introduction to Music	3		F, S, Su	CRC Area I
<b>CRC Area II(b)-Math Competency</b> <sup>3</sup> <sup>Z</sup>	3	Recommend meeting with a counselor	F, S, Su	CRC Area II(b)

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

<sup>2</sup> Recommended for CRC Area I.

<sup>3</sup> By the 1 year point students must have MATH 100 completed and be eligible for ENGWR 300/341. Students who do not meet these requirements will be unable to continue into year 2 of the program.

## Semester 3 (Summer)

9 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>AMT 130</b> <sup>Z</sup> Ford ASSET Advanced Automatic Transmission Diagnosis	1.5		Su	
<b>AMT 379</b> Ford ASSET Automotive Engine Repair	3	AMT 371	Su	
<b>AMT 378</b> Ford ASSET Automatic Transmissions/Transaxles	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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## 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>

## 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.

## 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 Transmission/Transaxles (Ford ASSET)

Automotive Brakes (Ford ASSET)

Automotive Electrical Systems (Ford ASSET)

Automotive Engine Performance (Ford ASSET)

# Year 2

## Semester 4

13.5-17 Units

COURSE	UNITS	PRE-REQS <sup>A</sup>	SEMESTERS OFFERED*	GE AREA
<b>AMT 381</b> <sup>Z</sup> Ford ASSET Electronic Engine Control	4	AMT 371	F	
<b>AMT 382</b> <sup>Z</sup> Ford ASSET Gasoline Engine Performance	3	AMT 371	F	
<b>AMT 383</b> <sup>Z</sup> Ford ASSET Advanced Gasoline Engine Performance	3	AMT 371	F	
<b>AMT 498</b> <sup>1 Z</sup> Work Experience in Automotive Mechanics Technology	0.5-4		F, S, Su	CRC Area III(b)
<b>BUS 330</b> <sup>2</sup> Managing Diversity in the Workplace	3		F, S	CRC Area V(b) & VI

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

<sup>2</sup> Suggest taking this course to meets both Area V(b) and Area VI.

## Semester 5

14.5-18 Units

COURSE	UNITS	PRE-REQS <sup>A</sup>	SEMESTERS OFFERED*	GE AREA
<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 Z</sup> Work Experience in Automotive Mechanics Technology	0.5-4		F, S, Su	CRC Area III(b)
<b>HIST 311</b> <sup>2 Z</sup> History of the United States (1865 - Present) or	3	Advisory: ENGWR 300	F, S, Su	CRC Area V(a)

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:

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 <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>POLS 301</b> <sup>2</sup> Introduction to Government: United States	3	Advisory: eligible for EMGWR 300	F, S, Su	CRC Area V(a)
<b>PHYS 310</b> <sup>3</sup> <b>Z</b> Conceptual Physics	3	Advisory: MATH 100 or 102	F, S	CRC Area IV

**Z** 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.

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

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

<sup>2</sup> Suggested courses for CRC Area V(a).

<sup>3</sup> Suggested course for Area IV.

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