AUTOMOTIVE CAREER EDUCATION, ASSOCIATE IN SCIENCE

The Associate in Science in Automotive Career Education provides technical preparation in the skills required to maintain, inspect, service, repair, and diagnose vehicles and is suitable for students wishing to further their education and career opportunities. Students who pursue the degree option can benefit from the combination of hands-on, skills-competency based education combined with general education and work experience. Further education can be pursued through transfer opportunities. Four-year degree programs can benefit automotive technicians and students who are pursuing related fields such as technical writing, engineering and manufacturing, business, and education.

Course ID	Title	Units/ Hours
ACE V11	Automotive Vehicle Maintenance	3
ACE V12	Automotive Electrical Systems I	4
ACE V13	Automotive Engine Repair	4
ACE V21	Automotive Brake Systems	4
ACE V22	Automotive Steering and Suspension Systems	4
ACE V23	Automotive Electrical Systems II	4
ACE V31	Automotive Heating and Air Conditioning	4
ACE V32	Automotive Engine Management	4
ACE V33	Automotive Manual Transmissions and Transaxles	4
ACE V41	Automotive Automatic Transmissions and Transaxles	4
ACE V42	Automotive Engine Driveability	4
Total Hours		**43**

The following Plan of Study is a sample only. Students may satisfy General Education requirements by completing any course approved for a specific GE Area. The semester order in which students satisfy the different GE Areas may also vary from the sample plan.

Required Major Units: 43 - 43
Ventura College General Education Units: 29 - 33
Total Units for the Degree: 72 - 76

Year 1		
Fall Semester		**Units/Hours**
ACE V11	Automotive Vehicle Maintenance	3
ACE V12	Automotive Electrical Systems I	4
ACE V13	Automotive Engine Repair	4
ENGL V01A	English Composition (GE Area D1 - Writing Competency course)	4
KIN V10	Aerobic and Strength Training (or other GE Area E2 course)	1
	Units/Hours	**16**
Spring Semester		
ACE V21	Automotive Brake Systems	4
ACE V22	Automotive Steering and Suspension Systems	4
ACE V23	Automotive Electrical Systems II	4
HIST V56	United States History since 1877 (or other GE Area B1 course)	3
HED V01	Health and Wellness (or other GE Area E1 course)	3
	Units/Hours	**18**
Summer Semester		
BUS V30	Introduction to Business (or other GE Area B2 course)	3
AST V01	Elementary Astronomy (or other GE Area A2 course)	3
	Units/Hours	**6**
Year 2		
Fall Semester		
ACE V31	Automotive Heating and Air Conditioning	4
ACE V32	Automotive Engine Management	4
ACE V33	Automotive Manual Transmissions and Transaxles	4
MATH V03	Intermediate Algebra (or other GE Area D2 / Math Competency course)	5
	Units/Hours	**17**
Spring Semester		
ACE V41	Automotive Automatic Transmissions and Transaxles	4
ACE V42	Automotive Engine Driveability	4
MUS V07	History of Jazz (or other GE Area C2 course)	3
ART V51A	Beginning Ceramics I (or other GE Area C1 course)	3
ANTH V01	Biological Anthropology (or other GE Area A1 course)	3
	Units/Hours	**17**
	Total Units/Hours	**74**

Upon successful completion of this program, students will be able to:

- Identify and describe automotive system theory and operation.
- Perform maintenance service procedures in a timely manner and to industry standards.
- Practice safety in the repair and service associated with automotive systems.
- Using a systematic approach, determine the proper method of testing to be performed on automotive systems.