

# TECHNOLOGY

## Automotive Technology

### Two Year—A.S. Degree

**GENERAL AREAS OF SERVICE:** Most automotive service technologists perform a variety of repairs while others specialize. Most technologists repair or replace parts, rewire electrical systems, adjust brakes and mend body parts. Most mechanics can be found in service stations, garages, automotive factories, and service departments.

**PROFESSIONAL TRAINING:** A high school diploma and college automotive courses are needed. The profession requires manual dexterity and hand-eye coordination. Some training can be done on the job and an apprenticeship is recommended.

**DENOMINATIONAL OPPORTUNITIES:** Most denominational institutions hire automotive shop personnel.

**JOB OUTLOOK:** Employment of service technicians is projected to grow about as fast as the average for all occupations through the year 2014. Possibilities for opening a small business in this field are excellent. Sixteen percent of all service technicians were self-employed in 2004.

**EARNINGS:** According to the National Automobile Dealers Association, the national average salary for an auto technician in 2002 was \$41,588. \*The highest-paid technicians earned \$120,000 in 2002.

#### SOURCES OF ADDITIONAL INFORMATION:

New United Motor Manufacturing, Inc.  
45500 Fremont Blvd.  
Fremont, CA 94538  
(570) 498-5500  
[www.nummi.com](http://www.nummi.com)

Automotive Service Councils of California  
(916) 924-9054  
[www.ascca.com](http://www.ascca.com)

National Automotive Technicians Education Foundation  
101 Blue Seal Dr. S.E., Suite 101  
Leesburg, VA 20175  
[www.natef.org](http://www.natef.org)

\*U.S. Bureau of Labor Statistics  
[www.bls.gov/oco](http://www.bls.gov/oco)

**Department Chair:** Linda Nelson  
**Academic Adviser:** Rob Holm

**ALL A.S. SENIORS MUST TAKE A COMPREHENSIVE EXAM IN THEIR FIELD BEFORE GRADUATION—these are Exit Exams.**

#### FRESHMAN YEAR

	AUT Cr	WIN Cr	SPR Cr
Internal Combustion Engine Theory (AUTO 134)	2	-	-
Internal Combustion Engine Lab (AUTO 135)	2	-	-
Power Trains & Axles (AUTO 145)	-	2	-
Power Trains & Axles Lab (AUTO 146)	-	2	-
Electrical Systems Theory (AUTO 156)	-	-	2
Electrical Systems Lab (AUTO 157)	-	-	2
Fundamentals of CAD (DRFT 120)	2	-	-
Software Appl: Cptr.Literacy, MS Word, MS Excel(INFO 150A,B,C)	1	1	1
College Writing (ENGL 121, 122)	3	3	-
Research Writing (ENGL 223)	-	-	3
General Studies History or Social Science	-	-	4
General Studies Humanities	4	-	-
General Studies Mathematics	-	-	4
General Studies P.E. Activity	1	1	-
General Studies Religion (RELB)	2	4	-
Technical Electives	-	4	-
	17	17	16

#### SOPHOMORE YEAR

Engine Rebuilding Lab (AUTO 286)	-	2	-
Engine Performance (AUTO 314)	2	-	-
Engine Performance Lab (AUTO 315)	2	-	-
*Suspension and Steering System & Lab (AUTO 335, 336)	-	(4)	-
*Brake Systems and Traction Control & Lab (AUTO 337, 338)	-	(4)	-
*Climate Control Systems & Lab (AUTO 355, 356)	-	-	(4)
*Automatic Transmissions and Transaxles & Lab (AUTO 357, 358)	-	-	(4)
*Advanced Engine Performance (AUTO 414)	(3)	-	-
Solid State Devices (ELCT 252)	-	4	-
Practicum in Automotive (AUTO 280)	-	-	2
Fundamentals of Electronics (ELCT 241)	4	-	-
Hydraulics and Pneumatics (TECH 326)	-	(3)	-

#### OR

Computer Applications in Technology (TECH 335)	(3)	-	-
Occupational Health & Safety (TECH 364)	-	2	-
General Studies History or Social Science	-	-	4
General Studies Religion	-	-	2
General Electives	0-1	0-3	4
Technical Electives	3	-	-
	15	15	16

\*Offered Alternate Years