

AUTOMATIC AND MANUAL TRANSMISSION ASSOCIATE OF SCIENCE DEGREE

This degree prepares students to gain entry-level employment in maintenance and repair of automotive and hybrid vehicle transmissions. Transmission technicians work with some of the most advanced technology in the auto service industry, including computer command control on electronic gear trains, couplings, hydraulic pumps and other transmission components. To graduate with a specialization in Automatic and Manual Transmissions, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).

Code	Title	Units
Required Courses:		
AUTO 064 or HMDT 064	Auto/Truck Electrical Systems	4
AUTO 075	Automatic Transmissions and Transaxles	3
AUTO 075L	Automotive Transmissions and Transaxles - Laboratory	1
AUTO 077	Manual Transmissions and Transaxles	3
AUTO 077L	Manual Transmissions and Transaxles - Laboratory	1
AUTO 084	General Automotive Technology	3
AUTO 084L	General Automotive Technology - Laboratory	1
AUTO 090	Engine Repair	3
AUTO 090L	Engine Repair - Laboratory	1
Total Units		20

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Identify auto shop safety practices.
- Explain the utilization of automotive tools.
- Summarize the theory and concepts of automotive powertrain and electrical systems.
- Practice auto shop safety.
- Apply the proper use of hand tools used in automotive powertrain and electrical systems.
- Perform the service and repairs of automotive powertrain and electrical systems.