

### GUIDED PATHWAY

The following sequence is the suggested pathway to complete the degree in two years. This sequence is based on satisfaction of all basic skills requirements and prerequisites and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your academic advisor for other options and to monitor your progress.

**Program Name: *Advanced Automotive Technology Certificate***

***Program Student Learning Outcomes (SLOs):***

1. Communicate using industry-specific terminology. (2)
2. Use industry-recognized resources, research basic automotive systems, including engines, brakes, steering, and suspension. (3,5)
3. Perform diagnosis on engine, brake, steering, and suspension automotive systems. (3,6)
4. Perform advanced diagnosis, service, and repair of ignition, fuel, starting, charging, and emission-control systems. (3, 6)
5. Utilize industry-specific technology to understand the correct usage of digital storage oscilloscopes and scan tool analysis. (3, 5,6)
6. Display a professional attitude and appearance while interacting with people. (1,3)
7. Perform appropriate and correct basic repair and/or maintenance on vehicles being services. (3,6)
8. Safely handle and dispose of hazardous materials and waste produced by vehicles. (3, 4, 6)
9. Implement safety procedures while using industry-specific tools and equipment. (3,6)
10. Perform diagnosis on air conditioning and heating, manual and automatic transmission, and drivetrain systems. (3, 5, 6)

Required Course Enrollment for all CBE courses: All students must follow the course outline below.

Courses Required	Credits
*ASE 105	2
*ASE 125	4
*ASE 165	3
*ASE 175	3
*ASE 155	2
*ASE 145	4
*ASE 210	4
*ASE 215	2
*ASE 245	4
*ASE 230	1
*ASE 275	1

**Key:**

- SP= Spring                      F= Fall                      SU= Summer
1. Aesthetic Sensibilities: An awareness of creative expression in the world around us.
  2. Communication Skills: The ability to effectively convey meaning through various media on both personal and professional levels.
  3. Critical Thinking Skills and Problem-Solving: The ability to analyze data and arrive at logical and defensible conclusions.
  4. Cultural Diversity and Global Awareness: An appreciation of relationships and differences in values, customs, and norms of diverse global communities.
  5. Techniques of Inquiry: Use of standardized methodological framework to collect, analyze, interpret, and present findings.
  6. Technological Competency: A proficiency in evolving technology to compete and flourish in society.

**Total credits required**

**30**