

# AUTOMOTIVE TECHNOLOGY

## CERTIFICATE

### Guided Pathway/Map

**NOTE:** The Guided Pathway below contains all the coursework required for degree/certificate completion. However, courses may be offered or taken in other semesters as long as prerequisites are met. Courses may be available days, nights, hybrid, and online.

|            | Course #              | Course Name  | Sem. Hours            |
|------------|-----------------------|--|-----------------------|
| Semester 1 | ORI 101 OR<br>ORT 100 | Orientation to College OR<br>Orientation for Career Students                     | 1                     |
|            | CIS146                | Microcomputer Applications   | 3                     |
|            | MTH116                | Mathematical Applications  | 3                     |
|            | ASE101                | Fundamentals of Automotive Technology  | 3                     |
|            | ASE112                | Electrical Fundamentals  | 3                     |
|            | ASE121                | Braking Systems  | 3                     |
|            |                       | <b>Eligible to take ASE A-1 Engine Repair Certification Exam</b>                 | Semester Total:<br>16 |
|            |                       | <b>Eligible to take ASE A-5 Brakes Certification Exam</b>                        |                       |
|            |                       | <b>Eligible to take ASE A-6 Electrical/Electronic Systems Certification Exam</b> |                       |
| Semester 2 | ENG 101               | English Composition I  | 3                     |
|            | ASE122                | Steering and Suspension  | 3                     |
|            | ASE124                | Automotive Engines   | 3                     |
|            | ASE130                | Drive Train and Axles  | 3                     |
|            |                       | <b>Eligible to take ASE A-4 Steering and Suspension Certification Exam</b>       | Semester Total:<br>12 |
|            |                       | <b>Eligible to take ASE A-3 Manual Drive Train and Axles Certification Exam</b>  |                       |
| Semester 3 | SPH106 OR<br>SPH 107  | Fundamentals of Oral Communication OR Fundamentals of Public Speaking            | 3                     |
|            | ASE133                | Motor Vehicle Air Conditioning   | 3                     |
|            | ASE212                | Advanced Electrical and Electronic Systems                                       | 3                     |
|            | ASE239                | Engine Performance   | 3                     |
|            |                       | <b>Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam</b>  | Semester Total:<br>12 |

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|            |        |   |                       |
|------------|--------|---|-----------------------|
| Semester 4 | ASE224 | Manual Transmission/Transaxle   | 3                     |
|            | ASE230 | Automatic Transmission/Transaxle  | 3                     |
|            | ASE244 | Engine Performance and Diagnostics  | 3                     |
|            | ASE246 | Automotive Emissions  | 3                     |
|            | ASE263 | Hybrid and Electric Vehicles  | 3                     |
|            |        | <b>Eligible to take the ASE A-2 Automatic Transmission/Transaxle Certification Exam</b>   | Semester Total:<br>15 |
|            |        | <b>Eligible to take the ASE A-8 Engine Performance Certification Exam</b>                 |                       |
|            |        | <b>Eligible to take the ASE L-3 Hybrid/Electric Vehicle Specialist Certification Exam</b> |                       |
|            |        |   | Program Total: 55     |