

AUTOMOTIVE TECHNOLOGY

AAS

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 ORT 100 | Orientation to College OR Orientation for Career Students | 1 |
| | ASE101 | Fundamentals of Automotive Technology | 3 |
| | ASE112 | Electrical Fundamentals | 3 |
| | ASE121 | Braking Systems | 3 |
| | CIS146 | Microcomputer Applications | 3 |
| | MTH116 | Mathematical Applications | 3 |
| | | Eligible to take ASE A-1 Engine Repair Certification Exam | Semester Total: 16 |
| | | Eligible to take ASE A-5 Brakes Certification Exam | |
| | | Eligible to take ASE A-6 Electrical/Electronics Systems Certification Exam | |
| Semester 2 | ENG101 | English Composition I | 3 |
| | ASE122 | Steering and Suspension | 3 |
| | ASE124 | Automotive Engines | 3 |
| | ASE130 | Drive Train and Axles | 3 |
| | | Eligible to take ASE A-4 Steering and Suspension Certification Exam | Semester Total: 12 |
| | | Eligible to take ASE A-3 Manual Drive Train and Axles Certification Exam | |
| Semester 3 | Area II | Humanities/Fine Arts Elective | 3 |
| | ASE133 | Motor Vehicle Air Conditioning | 3 |
| | ASE212 | Advanced Electrical and Electronic Systems | 3 |
| | ASE239 | Engine Performance | 3 |
| | | Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam | Semester Total: 12 |

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| Semester 4 | Area III | Math/Science Elective | 3-4 |
| | ASE224 | Manual Transmission/Transaxle | 3 |
| | ASE230 | Automatic Transmissions/Transaxle | 3 |
| | ASE263 | Hybrid and Electric Vehicles | 3 |
| | | Eligible to take ASE A-2 Automatic Transmission/Transaxle Certification Exam | Semester Total: 12-13 |
| | | Eligible to take ASE L-3 Hybrid/Electric Vehicle Specialist Certification Exam | |
| Semester 5 | Area IV | History/Social/Behavioral Science Elective | 3 |
| | SPH106 OR SPH107 | Fundamentals of Oral Communication OR Fundamentals of Public Speaking | 3 |
| | ASE246 | Automotive Emissions | 3 |
| | ASE244 | Engine Performance and Diagnostics | 3 |
| | | Eligible to take ASE A-8 Engine Performance Certification Exam | Semester Total: 12 |
| | | TOTAL HOURS REQUIRED FOR AAS | 64-65 |