

AUTOMOTIVE TECHNOLOGY

AAS

Guided Pathway/Map

NOTE: The Guided Pathway below contain 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 | ASE101 | Fundamentals of Automotive Technology | 3 |
| | ASE112 | Electrical Fundamentals | 3 |
| | ASE124 | Automotive Engines | 3 |
| | MTH116 | Mathematical Applications | 3 |
| | CIS146 | Microcomputer Applications | 3 |
| | ORI101 or ORI 105 | Orientation to College OR Orientation and Student Success | 1-3 |
| | | ELIGIBLE FOR STACKABLE STC - ENGINE REPAIR ELIGIBLE TO TAKE ASE A-1 ENGINE REPAIR EXAM | Semester Total:16-18 |
| Semester 2 | ASE121 | Braking Systems | 3 |
| | ASE122 | Steering and Suspension | 3 |
| | ASE130 | Drive Train and Axles | 3 |
| | ASE133 | Motor Vehicle Air Conditioning | 3 |
| | | ELIGIBLE FOR STACKABLE STC STEERING AND SUSPENSION SYSTEMS; BRAKE SYSTEMS; HEATING AND AIR CONDITIONING Eligible to take ASE A-4 Steering and Suspension Exam Eligible to take ASE A-5 Brakes Exam Eligible to take ASE A-7 Heating and Air Conditioning Exam | Semester Total: 12 |
| Semester 3 | ASE239 | Engine Performance | 3 |
| | ASE162 | Electrical and Electronic Systems | 3 |
| | ASE212 | Advanced Electrical and Electronic Systems | 3 |
| | ASE224 | Manual Transmission/Transaxle | 3 |
| | | ELIGIBLE FOR STACKABLE STC – MANUAL DRIVE TRAIN AND AXLES; ELECTRICAL AND ELECTRONIC SYSTEMS Eligible to take ASE A-3 Manual Drive Train and Axles | Semester Total: 12 |

AUTOMOTIVE TECHNOLOGY

AAS

| | | Exam Eligible to take ASE A-6 Electrical/Electronic Systems Exam | |
|------------|---------------------|---|-----------------------|
| Semester 4 | ASE244 | Engine Performance and Diagnostics | 3 |
| | ASE191 | CO-OP | 2 |
| | Area II | Humanities/Fine Arts Elective | 3 |
| | ENG101 | English Composition I | 3 |
| | | | Semester Total: 11 |
| Semester 5 | ASE230 | Automatic Transmissions/Transaxle | 3 |
| | SPH106 OR SPH107 | Fundamentals of Oral Communication OR Fundamentals of Public Speaking | 3 |
| | Area III | Math/Science Elective | 3-4 |
| | Area IV | History/Social/Behavioral Science Elective | 3 |
| | | ELIGIBLE FOR STACKABLE STC – AUTOMATIC TRANSMISSION Eligible to take the ASE A-2 Automatic Transmission/Transaxle Exam | Semester Total: 12-13 |
| Semester 6 | ASE246 | Automotive Emissions | 3 |
| | ASE291 | CO-OP | 3 |
| | WKO106 | Workplace Skills | 3 |
| | | ELIGIBLE FOR STACKABLE STC – ENGINE PERFORMANCE Eligible to take ASE A-8 Engine Performance Exam | Semester Total: 9 |
| | | TOTAL HOURS REQUIRED FOR AAS | 72-75 |

AUTOMOTIVE TECHNOLOGY

CERTIFICATE

Guided Pathway/Map

NOTE: The Guided Pathway below contain 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 | ASE101 | Fundamentals of Automotive Technology | 3 |
| | ASE112 | Electrical Fundamentals | 3 |
| | ASE124 | Automotive Engines | 3 |
| | MTH116 | Mathematical Applications | 3 |
| | CIS146 | Microcomputer Applications | 3 |
| | ORI101 | Orientation to College | 1 |
| | | ELIGIBLE FOR STACKABLE STC - ENGINE REPAIR ELIGIBLE TO TAKE ASE A-1 ENGINE REPAIR EXAM | Semester Total:16 |
| Semester 2 | ASE121 | Braking Systems | 3 |
| | ASE122 | Steering and Suspension | 3 |
| | ASE130 | Drive Train and Axles | 3 |
| | ASE133 | Motor Vehicle Air Conditioning | 3 |
| | | ELIGIBLE FOR STACKABLE STC STEERING AND SUSPENSION SYSTEMS; BRAKE SYSTEMS; HEATING AND AIR CONDITIONING Eligible to take ASE A-4 Steering and Suspension Exam Eligible to take ASE A-5 Brake Exam Eligible to take ASEA-7 Heating and Air Conditioning Exam | Semester Total: 12 |
| Semester 3 | ASE239 | Engine Performance | 3 |
| | ASE162 | Electrical and Electronic Systems | 3 |
| | ASE212 | Advanced Electrical and Electronic Systems | 3 |
| | ASE224 | Manual Transmission/Transaxle | 3 |
| | | ELIGIBLE FOR STACKABLE STC – MANUAL DRIVE TRAIN AND AXLES; ELECTRICAL AND ELECTRONIC SYSTEMS Eligible to take ASE A-3 Manual Drive Train and Axles | Semester Total: 12 |

AUTOMOTIVE TECHNOLOGY CERTIFICATE

| | | Exam Eligible to take ASE A-6 Electrical/Electronic Systems Exam | |
|------------|------------|---|--------------------------|
| Semester 4 | ASE244 | Engine Performance and Diagnostics | 3 |
| | ASE230 | Automatic Transmission/Transaxle | 3 |
| | ENG101 | English Composition I | 3 |
| | | | Semester Total: 9 |
| Semester 5 | ASE246 | Automotive Emissions | 3 |
| | ASE191 | CO-OP | 2 |
| | SPH106/107 | Fundamentals of Oral Communication OR Fundamentals of Public Speaking | 3 |
| | | ELIGIBLE FOR STACKABLE STC – ENGINE PERFORMANCE Eligible to take the ASE A-8 Engine Performance Exam | Semester Total: 8 |
| | | | Program Total:57 |

AUTOMOTIVE TECHNOLOGY

BASIC AUTOMOTIVE, TRUCK, AND TRACTOR SERVICE AND REPAIR SHORT TERM CERTIFICATE

Guided Pathway/Map

NOTE: The Guided Pathway below contain 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 | ASE101 | Fundamentals of Automotive Technology | 3* |
| | ASE112 | Electrical Fundamentals | 3* |
| | ASE124 | Automotive Engines | 3* |
| | ASE130 | Drive Train and Axles | 3** |
| | ASE133 | Motor Vehicle Air Conditioning | 3** |
| | | *ELIGIBLE FOR STACKABLE STC ENGINE REPAIR ELIGIBLE TO TAKE ASE A-1 ENGINE REPAIR EXAM | Semester Total:15 |
| Semester 2 | ASE121 | Braking Systems | 3** |
| | ASE122 | Steering and Suspension | 3** |
| | ASE191 | CO-OP | 2 |
| | ASE239 | Engine Performance | 3 |
| | WKO106 | Workplace Skills | 3 |
| | | **ELIGIBLE FOR STACKABLE STC STEERING AND SUSPENSION SYSTEMS; BRAKE SYSTEMS; HEATING AND AIR CONDITIONING **Eligible to take ASE A-4 Steering and Suspension Exam **Eligible to take ASE A-5 Brake Exam **Eligible to take ASEA-7 Heating and Air Conditioning Exam | Semester Total: 14 |
| | | | Program Total: 29 |