

# Advanced Automotive Technology - Automotive Service Technology

**Program:** Advanced Automotive Technology

## AUTOMOTIVE SERVICE TECHNOLOGY CERTIFICATE – Guided Pathway/Map

### 1st Semester

| Item #  | Title                                 | Credits |
|---------|---------------------------------------|---------|
| AUM 101 | Fundamentals of Automotive Technology | 3       |
| AUM 121 | Braking Systems                       | 3       |
| AUM 122 | Steering and Suspension               | 3       |
| AUM 130 | Drive Train and Axles                 | 3       |
| AUM 224 | Manual Transmission and Transaxle     | 3       |
| ORI 110 | Freshman Seminar                      | 1       |
|         | Sub-Total Credits                     | 16      |

### 2nd Semester

| Item #  | Title                                 | Credits |
|---------|---------------------------------------|---------|
| AUM 112 | Electrical Fundamentals               | 3       |
| AUM 124 | Automotive Engines                    | 3       |
| AUM 162 | Electrical and Electronic Systems     | 3       |
| AUM 220 | Advanced Automotive Engines           | 3       |
| AUM 230 | Automatic Transmission and Transaxle  | 3       |
| MTH 103 | Introduction to Technical Mathematics | 3       |
|         | Sub-Total Credits                     | 18      |

### 3rd Semester

| Item #  | Title                              | Credits |
|---------|------------------------------------|---------|
| AUM 133 | Motor Vehicle Air Conditioning     | 3       |
| AUM 239 | Engine Performance                 | 3       |
| AUM 244 | Engine Performance and Diagnostics | 3       |
| AUM 246 | Automotive Emissions               | 3       |
| ENG 101 | English Composition I              | 3       |
|         | Sub-Total Credits                  | 15      |

## 4th Semester

| Item #  | Title                                      | Credits   |
|---------|--|-----------|
| AUM 212 | Advanced Electrical and Electronic Systems | 3         |
| AUM 250 | Hybrid & Electric Vehicle                  | 3         |
|         | Sub-Total Credits                          | 6         |
|         | <b>Total credits:</b>                      | <b>55</b> |