

PROGRAMS

COLLISION REPAIR AND REFINISHING TECHNOLOGY

Curricula in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The programs provide an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

The Collision Repair and Refinishing Technology program prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. This program includes instruction in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, and damage analysis and estimating.

Associate (A60130)

Fall Semester 1

| | | Lec | Lab | Clinic | Credit |
|-----------------|--------------------------------------|------------|------------|---------------|---------------|
| ACA-115 | Success & Study Skills | 0 | 2 | 0 | 1 |
| English Options | English Options Listed Below | 3 | 0 | 0 | 3 |
| TRN-110 | Introduction to Transport Technology | 1 | 2 | 0 | 2 |
| AUB-111 | Painting & Refinishing I | 2 | 6 | 0 | 4 |
| TRN-170 | Pc Skills for Transportation | 1 | 2 | 0 | 2 |
| AUB-136 | Plastics & Adhesives | 1 | 4 | 0 | 3 |
| TRN-180 | Basic Welding for Transportation | 1 | 4 | 0 | 3 |
| | | | | Total: | 18 |

Spring Semester 1

| | | Lec | Lab | Clinic | Credit |
|---------|--------------------------------------|------------|------------|---------------|---------------|
| AUB-121 | Non-Structural Damage I | 1 | 4 | 0 | 3 |
| AUB-131 | Structural Damage I | 2 | 4 | 0 | 4 |
| AUB-162 | Autobody Estimating | 1 | 2 | 0 | 2 |
| AUB-160 | Body Shop Operations | 1 | 0 | 0 | 1 |
| AUB-141 | Mechanical & Electrical Components I | 2 | 2 | 0 | 3 |
| AUB-150 | Automotive Detailing | 1 | 3 | 0 | 2 |
| | | | | Total: | 15 |

Summer Semester 1

| | | Lec | Lab | Clinic | Credit |
|-----------------------|---|------------|------------|---------------|---------------|
| Communications Option | Communications Options Listed Below | 3 | 0 | 0 | 3 |
| Math Option | Mathematics Options Listed Below | 2 | 2 | 0 | 3 |
| Humanities Option | Humanities and Fine Arts Options Listed Below | 3 | 0 | 0 | 3 |

Summer Semester 1

| Lec | Lab | Clinic | Credit |
|-----|-----|--------|-----------------|
| | | | Total: 9 |

Fall Semester 2

| | | Lec | Lab | Clinic | Credit |
|---------|--------------------------------|-----|-----|--------|------------------|
| AUB-112 | Painting & Refinishing II | 2 | 6 | 0 | 4 |
| AUB-114 | Special Finishes | 1 | 2 | 0 | 2 |
| AUB-122 | Non-Structural Damage II | 2 | 6 | 0 | 4 |
| TRN-140 | Transportation Climate Control | 1 | 2 | 0 | 2 |
| | | | | | Total: 12 |

Spring Semester 2

| | | Lec | Lab | Clinic | Credit |
|----------------------------|--|-----|-----|--------|------------------|
| AUB-132 | Structural Damage II | 2 | 6 | 0 | 4 |
| AUT-141 | Suspension & Steering Systems | 2 | 3 | 0 | 3 |
| AUT-151 | Brake Systems | 2 | 3 | 0 | 3 |
| Social & Behavioral Option | Social & Behavioral Science Options Listed Below | 3 | 0 | 0 | 3 |
| | | | | | Total: 13 |

Total Credit Hours: 67**English: Choose One of the following courses:**

| | | Lec | Lab | Clinic | Credit |
|---------|----------------------|-----|-----|--------|--------|
| ENG-110 | Freshman Composition | 3 | 0 | 0 | 3 |
| ENG-111 | Writing and Inquiry | 3 | 0 | 0 | 3 |

Communications: Choose One of the following:

| | | Lec | Lab | Clinic | Credit |
|---------|---|-----|-----|--------|--------|
| COM-120 | Intro to Interpersonal Communication | 3 | 0 | 0 | 3 |
| COM-231 | Public Speaking | 3 | 0 | 0 | 3 |
| ENG-112 | Writing and Research in the Disciplines | 3 | 0 | 0 | 3 |

Mathematics: Choose at least 3 hours from the following courses:

| | | Lec | Lab | Clinic | Credit |
|---------|---------------------------------------|-----|-----|--------|--------|
| MAT-110 | Mathematical Measurement and Literacy | 2 | 2 | 0 | 3 |
| MAT-143 | Quantitative Literacy | 2 | 2 | 0 | 3 |

Humanities/Fine Arts Choices for AAS Degree Programs Unless Otherwise Noted:

| | | Lec | Lab | Clinic | Credit |
|---------|------------------------|-----|-----|--------|--------|
| ART-111 | Art Appreciation | 3 | 0 | 0 | 3 |
| HUM-110 | Technology and Society | 3 | 0 | 0 | 3 |
| HUM-115 | Critical Thinking | 3 | 0 | 0 | 3 |
| MUS-110 | Music Appreciation | 3 | 0 | 0 | 3 |

Social and Behavioral Sciences Choices for AAS Degree Programs Unless Otherwise Noted:

| | | Lec | Lab | Clinic | Credit |
|---------|------------------------------|-----|-----|--------|--------|
| ECO-251 | Principles of Microeconomics | 3 | 0 | 0 | 3 |
| ECO-252 | Principles of Macroeconomics | 3 | 0 | 0 | 3 |

Social and Behavioral Sciences Choices for AAS Degree Programs Unless Otherwise Noted:

| | | Lec | Lab | Clinic | Credit |
|---------|---------------------------|------------|------------|---------------|---------------|
| POL-120 | American Government | 3 | 0 | 0 | 3 |
| PSY-150 | General Psychology | 3 | 0 | 0 | 3 |
| SOC-210 | Introduction to Sociology | 3 | 0 | 0 | 3 |

Diploma (D60130)

Fall Semester 1

| | | Lec | Lab | Clinic | Credit |
|-----------------|--------------------------------------|------------|------------|---------------|---------------|
| English Options | English Options Listed Below | 3 | 0 | 0 | 3 |
| TRN-110 | Introduction to Transport Technology | 1 | 2 | 0 | 2 |
| TRN-180 | Basic Welding for Transportation | 1 | 4 | 0 | 3 |
| AUB-111 | Painting & Refinishing I | 2 | 6 | 0 | 4 |
| TRN-170 | Pc Skills for Transportation | 1 | 2 | 0 | 2 |
| AUB-136 | Plastics & Adhesives | 1 | 4 | 0 | 3 |
| | | | | Total: | 17 |

Spring Semester 1

| | | Lec | Lab | Clinic | Credit |
|---------|--------------------------------------|------------|------------|---------------|---------------|
| AUB-121 | Non-Structural Damage I | 1 | 4 | 0 | 3 |
| AUB-131 | Structural Damage I | 2 | 4 | 0 | 4 |
| AUB-141 | Mechanical & Electrical Components I | 2 | 2 | 0 | 3 |
| AUB-150 | Automotive Detailing | 1 | 3 | 0 | 2 |
| AUB-160 | Body Shop Operations | 1 | 0 | 0 | 1 |
| AUB-162 | Autobody Estimating | 1 | 2 | 0 | 2 |
| | | | | Total: | 15 |

Summer Semester 1

| | | Lec | Lab | Clinic | Credit |
|-------------|----------------------------------|------------|------------|---------------|---------------|
| Math Option | Mathematics Options Listed Below | 2 | 2 | 0 | 3 |
| | | | | Total: | 3 |

Total Credit Hours: 38

English: Choose One of the following courses:

| | | Lec | Lab | Clinic | Credit |
|---------|----------------------|------------|------------|---------------|---------------|
| ENG-110 | Freshman Composition | 3 | 0 | 0 | 3 |
| ENG-111 | Writing and Inquiry | 3 | 0 | 0 | 3 |

Mathematics: Choose at least 3 hours from the following courses:

| | | Lec | Lab | Clinic | Credit |
|---------|---------------------------------------|------------|------------|---------------|---------------|
| MAT-110 | Mathematical Measurement and Literacy | 2 | 2 | 0 | 3 |
| MAT-143 | Quantitative Literacy | 2 | 2 | 0 | 3 |

Certificate Basic (C60130B)

Fall Semester 1

| | | Lec | Lab | Clinic | Credit |
|---------|--------------------------|------------|------------|---------------|---------------|
| AUB-111 | Painting & Refinishing I | 2 | 6 | 0 | 4 |

Fall Semester 1

AUB-136 Plastics & Adhesives

| Lec | Lab | Clinic | Credit |
|---------------|------------|---------------|---------------|
| 1 | 4 | 0 | 3 |
| Total: | | | 7 |

Spring Semester 1

AUB-121 Non-Structural Damage I

AUB-131 Structural Damage I

| Lec | Lab | Clinic | Credit |
|---------------|------------|---------------|---------------|
| 1 | 4 | 0 | 3 |
| 2 | 4 | 0 | 4 |
| Total: | | | 7 |

Total Credit Hours: 14

