

# Automotive - COE

## **AUTOMOTIVE TECHNOLOGY**

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# Workforce Degrees and Certificates

## Automotive Technology

### AUTOMOTIVE TECHNOLOGY - TECHNICIAN

#### Associate of Applied Science

##### FIRST YEAR

First Semester - Fall			SCH
EDUC	1300	Learning Framework	3
AUMT	1305	Introduction to Automotive Technology	3
AUMT	2328	Automotive Service	3
AUMT	1310	Automotive Brake Systems	3
AUMT	1316	Automotive Suspension & Steering Systems	3
<b>Semester Total</b>			<b>15</b>

##### Second Semester - Spring

AUMT	1307	Automotive Electrical Systems	3
AUMT	1345	Automotive Climate Control Systems	3
AUMT	2321	Automotive Electrical Diagnosis & Repair	3
AUMT	2317	Automotive Engine Performance Analysis I	3
XXXX	#3## <sup>1</sup>	Math/Natural Science Elective	3
<b>Semester Total</b>			<b>15</b>

##### SECOND YEAR

First Semester - Fall			SCH
ENGL	1301	Composition I	3
AUMT	2313	Automotive Drive Train & Axles	3
AUMT	1306	Automotive Engine Removal & Installation	3
AUMT	2325	Automotive Automatic Transmission & Transaxle	3
AUMT	2334	Automotive Engine Performance Analysis II	3
<b>Semester Total</b>			<b>15</b>

##### Second Semester - Spring

XXXX	#3## <sup>1</sup>	General Education Elective	3
XXXX	#3## <sup>1</sup>	Social/Behavioral Sciences Elective	3
AUMT	1319	Automotive Engine Repair	3
XXXX	#3## <sup>1</sup>	Humanities/Fine Arts Elective	3
AUMT	2380	Cooperative Education - Automobile/Automotive Mechanics Technology/ Technician (Capstone)	3
<b>Semester Total</b>			<b>15</b>

**Total Minimum Credits for the AAS Degree** **60**

<sup>1</sup> A list of electives appears in the Core Curriculum section of this catalog.

# Workforce Degrees and Certificates

## AUTOMOTIVE TECHNOLOGY - TECHNICIAN

### Certificate - Level 1

#### First Semester - Fall

			SCH
AUMT	1305	Introduction to Automotive Technology	3
AUMT	2328	Automotive Service	3
AUMT	1310	Automotive Brake Systems	3
AUMT	1316	Automotive Suspension & Steering Systems	3
<b>Semester Total</b>			<b>12</b>

#### Second Semester - Spring

AUMT	1307	Automotive Electrical Systems	3
AUMT	1345	Automotive Climate Control Systems	3
AUMT	2321	Automotive Electrical Diagnosis & Repair	3
AUMT	2317	Automotive Engine Performance Analysis I	3
<b>Semester Total</b>			<b>12</b>

#### Third Semester - Summer

AUMT	2313	Automotive Drive Train & Axles	3
AUMT	1306	Automotive Engine Removal & Installation	3
AUMT	2325	Automotive Automatic Transmission & Transaxle	3
AUMT	2334	Automotive Engine Performance Analysis II	3
AUMT	1380	Cooperative Education - Automobile/Automotive Mechanics Technology/ Technician (Capstone)	3
<b>Semester Total</b>			<b>15</b>

**Total Minimum Credits for the Level 1 Certificate** **39**

# Workforce Degrees and Certificates

## AUTOMOTIVE TECHNOLOGY - AUTOBODY/COLLISION REPAIR TECHNICIAN

### Certificate - Level 1

#### First Semester - Fall

			SCH
ABDR	2441	Major Collision Repair & Panel Replacement	4
ABDR	1431	Basic Refinishing	4
ABDR	1207	Collision Repair Welding	2
ABDR	1215	Vehicle Trim & Hardware	2
<b>Semester Total</b>			<b>12</b>

#### Second Semester - Spring

ABDR	1458	Intermediate Refinishing	4
ABDR	1441	Structural Analysis & Damage Repair I	4
ABDR	1442	Structural Analysis & Damage Repair II	4
<b>Semester Total</b>			<b>12</b>

#### Third Semester - Summer

ABDR	2449	Advanced Refinishing	4
ABDR	2431	Structural Analysis & Damage Repair III	4
ABDR	1291	Special Topics in Auto/Automotive Body Repairer	2
ABDR	1280	Cooperative Education - Autobody/Collision & Repair Technology/Technician (Capstone)	2
<b>Semester Total</b>			<b>12</b>

**Total Minimum Credits for the Level 1 Certificate** **36**

# Workforce Degrees and Certificates

## AUTOMOTIVE TECHNOLOGY - MAINTENANCE & LIGHT REPAIR

### Certificate - Level 1

First Semester - Fall			SCH
AUMT	1305	Introduction to Automotive Technology	3
AUMT	1307	Automotive Electrical Systems	3
AUMT	1310	Automotive Brake Systems	3
AUMT	1316	Automotive Suspension & Steering Systems	3
AUMT	2310	Automotive Service Consultant	3
<b>Semester Total</b>			<b>15</b>
Second Semester - Spring			
AUMT	1345	Automotive Climate Control Systems	3
AUMT	2317	Automotive Engine Performance Analysis I	3
AUMT	2328	Automotive Service	3
AUMT	1380	Cooperative Education - Automobile/Automotive Mechanics Technology/ Technician (Capstone)	3
<b>Semester Total</b>			<b>12</b>
<b>Total Minimum Credits for the Level 1 Certificate</b>			<b>27</b>

# Workforce Degrees and Certificates

## AUTOMOTIVE TECHNOLOGY - LIGHT AUTOMOTIVE MAINTENANCE TECHNICIAN

### Occupational Skills Award

First Semester - Fall			SCH
AUMT	1305	Introduction to Automotive Technology	3
AUMT	1310	Automotive Brake Systems	3
AUMT	1316	Automotive Suspension & Steering Systems	3
AUMT	2328	Automotive Service	3
<b>Total Minimum Credits for the Occupational Skills Award</b>			<b>12</b>

# Workforce Degrees and Certificates

## Heavy Vehicle & Truck Repair

### HEAVY VEHICLE & TRUCK REPAIR

#### Certificate - Level 1

##### First Semester - Fall

			<b>SCH</b>
DEMR	1301	Shop Safety & Procedures	3
DEMR	1317	Basic Brake Systems	3
DEMR	1310	Diesel Engine Testing & Repair I	3
DEMR	2312	Diesel Engine Testing & Repair II	3
		<b>Semester Total</b>	<b>12</b>

##### Second Semester - Spring

DEMR	1305	Basic Electrical Systems	3
DEMR	2332	Electronic Controls	3
DEMR	2439	Advanced Electrical Systems	4
DEMR	1323	Heating, Ventilation, & Air Conditioning (HVAC) Troubleshooting & Repair	3
		<b>Semester Total</b>	<b>13</b>

##### Third Semester - Summer

DEMR	1329	Preventative Maintenance	3
DEMR	1316	Basic Hydraulics	3
DEMR	1330	Steering & Suspension I	3
DEMR	1342	Power Train Applications I	3
DEMR	1381	Cooperative Education-Diesel Mechanics Technology/Technician (Capstone)	3
		<b>Semester Total</b>	<b>15</b>

**Total Minimum Credits for the Level 1 Certificate** **40**

# Workforce Degrees and Certificates

## HEAVY VEHICLE & TRUCK REPAIR - DIESEL PREVENTATIVE MAINTENANCE

### Occupational Skills Award

First Semester - Fall			SCH
DEMR	1301	Shop Safety & Procedures	3
DEMR	1317	Basic Brake Systems	3
DEMR	1310	Diesel Engine Testing & Repair I	3
DEMR	2312	Diesel Engine Testing & Repair II	3
<b>Total Minimum Credits for the Occupational Skills Award</b>			<b>12</b>