



**Course Information**

<b>Course Title</b>	Introduction and Theory of Automotive Technology
<b>Course Prefix, Num. and Title</b>	AUMT 1301
<b>Division</b>	Vocational Science
<b>Department</b>	Automotive Technology
<b>Course Type</b>	WECM Course
<b>Course Catalog Description</b>	An introductory overview of the automotive service industry including history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and automobile maintenance.
<b>Pre-Requisites</b>	None
<b>Co-Requisites</b>	None

**Semester Credit Hours**

<b>Total Semester Credit Hours (SCH): Lecture Hours:</b>	3:3:0
<b>Lab/Other Hours</b>	
<b>Equated Pay Hours</b>	3
<b>Lab/Other Hours Breakdown: Lab Hours</b>	0
<b>Lab/Other Hours Breakdown: Clinical Hours</b>	Enter Clinical Hours Here.
<b>Lab/Other Hours Breakdown: Practicum Hours</b>	Enter Practicum Hours Here.
<b>Other Hours Breakdown</b>	List Total Lab/Other Hours Here.

**Approval Signatures**

<b>Title</b>	<b>Signature</b>	<b>Date</b>
<b>Prepared by:</b>		
<b>Department Head:</b>		
<b>Division Chair:</b>		
<b>Dean/VPI:</b>		
<b>Approved by CIR:</b>		

## Additional Course Information

**Topical Outline:** Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

Automotive Systems and Operations  
The Automotive Business  
Automotive Tools and Equipment  
Measurement and Precision Measuring Devices  
Fasteners  
Automotive Bearings and Sealants  
Automobile Theories of Operation

### Course Learning Outcomes:

**Learning Outcomes – Upon successful completion of this course, students will:**

1. Explain the history of the automobile and career possibilities of the automobile industry.
2. Describe safe, professional, and responsible work practices.
3. Describe proper use of shop tools and equipment.
4. List the eight Automotive Service Excellence vehicle subsystems.
5. Explain the use of service publications.
6. Identify automotive maintenance.

#### Methods of Assessment:

1. Quizzes and assignments.
2. Quizzes and assignments.
3. Quizzes and assignments.
4. Quizzes and assignments.
5. Quizzes and assignments
6. Quizzes and assignments

### Required text(s), optional text(s) and/or materials to be supplied by the student:

CDX Online e Textbook. & Fundamentals of Automotive Technology CDX Automotive Jones & Bartlett Learning textbook.

### Suggested Course Maximum:

24

### List any specific or physical requirements beyond a typical classroom required to teach the course.

None

**Course Requirements/Grading System:** Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

90%to 100% = A  
80%to 89% = B  
70%to79% = C  
60%to 69% = D  
Below60% = F

Quizzes (homework) will count 45% of the course grade. Six exams given at the end of each chapter will count 45% of the course grade. The final exam will count 10% of the course grade.

## Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
  - Critical Thinking
  - Communication
  - Empirical & Quantitative Skills
  - Teamwork
  - Social Responsibility
  - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist