

AUTO 310: AUTOMOTIVE COMPONENTS

Originator

dredman

Co-Contributor(s)**Name(s)**

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Justification / Rationale

The Automotive Faculty are reviewing and/or updating this course to assure compliance with local, State, and Federal regulations; support consistency within the curriculum; practice relevance regarding automotive industry and community; and to make improvements that will strengthen the learning environment this course creates thus benefiting the learners.

Effective Term

Fall 2022

Credit Status

Noncredit

Subject

AUTO - Automotive Technology

Course Number

310

Full Course Title

Automotive Components

Short Title

AUTO PARTS

Discipline**Disciplines List**

Automotive Technology

Modality

Face-to-Face
100% Online

Catalog Description

This course provides lecture activities pertaining to eight major system components of the automobile including components of the engine, transmission, suspension, steering, braking, heating and air conditioning, emissions, computer control systems, and exhaust systems.

Schedule Description

This class provides an introductory level explanation of the major automotive system components, and a brief description of component function. This course is designed to prepare students for entry-level employment in the automotive field of parts/parts distribution. Advisory: AUTO 301 & ESLN 310A

Non-credit Hours

16

Lecture Units

0

Lab Units

0

In-class Hours

12

Out-of-class Hours

4

Total Course Units

0

Total Semester Hours

16

Override Description

non-credit course

Prerequisite Course(s)

Advisory: AUTO 301 & ESLN 310A

Required Text and Other Instructional Materials**Resource Type**

Instructional Materials

Open Educational Resource

Yes

Title

Instructor provided materials.

Class Size Maximum

26

Entrance Skills

List basic automotive parts.

Requisite Course Objectives

AUTO 301-Identify major automotive components.

Entrance Skills

Basic English skills.

Requisite Course Objectives

ESLN 310A-Show understanding of short phrases or sentences about topics that refer to basic personal information or the immediate physical setting.

Course Content

At the conclusion of this course, learners will have gained the knowledge of correctly identifying major automotive components in areas:

1. engine system.
2. automatic transmissions.
3. manual transmissions.
4. suspension and steering.
5. automotive braking.
6. automotive Heating, Ventilation and Air conditioning (HVAC) systems.
7. emission control systems.
8. computer control systems.

Course Objectives

| Objectives | |
|-------------|--|
| Objective 1 | Identify major automotive components in all eight major systems: engine, automatic transmission, manual transmission, suspension and steering, braking, heating, ventilation, and air conditioning, computer controls. |

Student Learning Outcomes

| Upon satisfactory completion of this course, students will be able to: | |
|--|--|
| Outcome 1 | Correctly identify and describe system components by visual inspection, and by customer description. |

Methods of Instruction

| Method | Please provide a description or examples of how each instructional method will be used in this course. |
|------------------------------------|--|
| Participation | Provide feedback during discussions and active involvement in assignments. |
| Discussion | Respectfully contribute and ask questions during discussions. |
| Demonstration, Repetition/Practice | Successfully complete assigned work. |

Methods of Evaluation

| Method | Please provide a description or examples of how each evaluation method will be used in this course. | Type of Assignment |
|--|---|---------------------|
| Written homework | Assigned after each session (both in and out of class). | In and Out of Class |
| Oral and practical examination | Demonstrate proficiency in course related material by successfully completing the oral exams. | In Class Only |
| Group activity participation/observation | Respectful, active interaction in group activities. | In Class Only |
| Presentations/student demonstration observations | Respectful practice proper active interaction in course related group activities. | In Class Only |

Assignments

Other In-class Assignments

1. End of class notebook including lecture notes, handout, projects.
2. Presentation.
3. Role play and interaction between fellow learners and or facilitator.
4. Participation in discussion related to topic of lecture.
5. Discussion of vehicle components.

Other Out-of-class Assignments

1. Assigned readings and written summaries from selected instructor handouts.
2. Written summaries and analysis of assigned websites/research information.
3. Must complete a course project.

Grade Methods

Pass/No Pass Only

Distance Education Checklist

Instructional Materials and Resources

Effective Student/Faculty Contact

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Discussion forums with substantive instructor participation
Online quizzes and examinations

Regular virtual office hours
Timely feedback and return of student work as specified in the syllabus
Weekly announcements

External to Course Management System:

Direct e-mail
Synchronous audio/video

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Regular effective contact will be practiced through online lecture, discussion board postings, email communications, regular announcements, prompt grading and feedback of assignments, and virtual office hours. This contact between the facilitator and learner on a regular basis will enhance learner confidence and understanding and promote critical thinking and analyzation of subject matter.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.

Interaction between instructor and learner will help to enhance learning and understanding of subject material.

Other Information**Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.**

With the uncertainty of the teaching environment, enabling the lecture portion of this course to be delivered in an online setting, while keeping the hands-on portion face-to-face, will ensure learners can access needed training to ensure knowledge and experience is achieved to gain employment in the automotive field.

MIS Course Data**CIP Code**

47.0614 - Alternative Fuel Vehicle Technology/Technician.

TOP Code

094800 - Automotive Technology

SAM Code

D - Possibly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Workforce Prep Enhanced Funding

Approved Special Class

Not special class

Noncredit Category

Workforce Preparation

Program Status

Program Applicable

Transfer Status

Not transferable

Allow Audit

No

Repeatability

Yes

Repeatability Limit

NC

Repeat Type

Noncredit

Justification

Allows learners the opportunity to repeat to obtain skill mastery.

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

03/17/2022

Academic Senate Approval Date

03/24/2022

Board of Trustees Approval Date

04/22/2022

Chancellor's Office Approval Date

03/23/2017

Course Control Number

CCC000581667

Programs referencing this courseAutomotive Terminology Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined/?key=174>)