

Clackamas Community College

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Section #1 General Course Information

Department: Automotive

Submitter

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Course Prefix and Number: AM - 100

Credits: 3

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): 72

Lab (# of hours):

Total course hours: 72

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Automotive Fundamentals

Course Description:

An introductory automotive service class intended to provide fundamental knowledge and basic experience about automobiles. Covers automotive systems, preventive maintenance and performing basic repairs. Also provides skill and knowledge for purchasing cars, choosing quality mechanics, and making good economic decisions about repairs and costs. Intended generally to enhance the overall satisfaction of being an automotive consumer and car owner.

Type of Course: Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

No

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ **Summer**

✓ **Fall**

✓ **Winter**

✓ **Spring**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. maintain, diagnose and repair basic automotive systems;
2. identify major components of an automobile;
3. implement a plan to negotiate a fair price on a new and used vehicle;
4. research and locate a qualified repair facility;
5. use and describe tools used in the automobile industry;
6. describe alternative fuel systems.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introduction and How Cars Work
2. Buying an Automobile
3. Automobile Expenses
4. Repair Facilities
5. Safety Around the Automobile
6. Basic Tools
7. Auto Care and Cleaning
8. Fluid Level Check
9. Electrical System
10. Lubrication System
11. Fuel System
12. Cooling System and Climate Control
13. Ignition System
14. Suspension, Steering, and Tires
15. Braking System
16. Drivetrain
17. Exhaust and Emission System
18. Alternative Fuels and Designs

19. Automotive Accessories

20. Common Problems and Roadside Emergencies

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Specify term: Spring term 2017
