

Clackamas Community College

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Section #1 General Course Information

Department: Automotive Technology: Auto Mechanics

Submitter

First Name: Nick

Last Name: Miller

Phone: 3054

Email: nickmil

Course Prefix and Number: AM - 235

Credits: 7

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): 154

Lab (# of hours):

Total course hours: 154

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: Power Transmission Systems

Course Description:

Covers construction, operation, service and repair of clutches, manual transmission, U-joints, drive lines, final drives, overdrive, and four wheel drives.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

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?

Yes

Name of degree(s) and/or certificate(s): Automotive Service Technology AAS

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?

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?

✓ 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. meet entry-level standards for employment as an Automotive Assistant or as an entry-level Automotive Technician in the areas covered in this course;
2. demonstrate knowledge of clutch and actuating assemblies for the purpose of diagnosis and repair;
3. demonstrate knowledge of manual transmissions/transaxles for the purpose of diagnosis and repair;
4. demonstrate knowledge of drive shafts and universal joints for the purpose of diagnosis and repair;
5. demonstrate knowledge of differential assemblies for the purpose of diagnosis and repair;
6. demonstrate knowledge of four wheel drive systems for the purpose of diagnosis and repair.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Clutch and actuating assemblies.
2. Manual transmissions/transaxles.
3. Drive shafts and universal joints.
4. Differential assemblies.
5. Four wheel drive systems.

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:

Next available term after approval

:
