

## Clackamas Community College

### Online Course/Outline Submission System

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#### Section #1 General Course Information

**Department:** Automotive

**Submitter**

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**Course Prefix and Number:** AM - 118

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**# 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.

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**Course Title:** Small Engine Repair

**Course Description:**

This course is designed to provide an overview of basic small engine maintenance, operation and repair. It covers safety, small engine theory, electrical systems, and troubleshooting. Classroom instruction covering theory of operation, 2 cycle and 4 cycle designs and applications, combined with hands-on live projects provides the student the opportunity to learn basic principles of small engine operation, including outdoor equipment, motorcycles, and A.T.V.'s.

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**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. explain small engine theory, as it applies to both 2 cycle and 4 cycle engines;
2. choose and utilize correct specialty tools needed for specific models;
3. measure and compare component specifications;
4. repair and adjust most types of ignition systems;
5. diagnose starting and operating problems relating to starting, ignition systems, and carburetors;
6. apply appropriate safety procedures and environmental practices during diagnosis and repair of small engines;
7. troubleshoot spark related and fuel related issues and repair accordingly.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Safety
2. Tool Identification
3. Theory of Small Engine Operation
4. Ignition Systems
5. Carburetion
6. Governors
7. Starters
8. Electrical systems
9. Lubrication
10. Fuel systems
11. Small engine troubleshooting
12. Engine performance and repair

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**

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