

# Adv PE Engine Systems, Repair

TEPM - 1020 251

## Course Description

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Second half of PE Engine Fundamentals. Designed to give experience from all aspects of small engines. Theory and operation are reviewed from the textbook during class, and students will service and repair engines and machine systems during lab. Students complete work on two- and/or four-cycle engines. Safe shop practices and professional behavior will be emphasized. This course is part 2 of 2.

Semester(s): Fall

## Course Student Learning Outcomes

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- Recognize and perform effective troubleshooting and preventative maintenance.
- Inspect and summarize the purpose of all engine components in the fuel, ignition, electrical, crankcase, cylinder camshaft and valve systems.
- Describe and perform effective engine reassembly and break-in process.
- Identify the purpose and become familiar with engines in their varieties of applications.

## Course Prerequisites

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None

## Transfer/Certification/Licensure/Employment Information

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None

## Engagement Plan

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- I will respond to email within one business day. I will offer feedback on major assignments within one business day. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- We will have classroom lecture, lab demonstrations, and assignments for you to complete on your own or with a small team of students.

## Keys for Success (how to succeed in the course)

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Be on time. There is nothing more important than punctuality. There are always issues that arise in life, so when one of these issues comes up please let me know through CANVAS.

Do your own work. Even if you are working in a team, make sure you get the chance to see everything going on. Take turns with your team so everyone gets a chance to complete the work.

If you borrow a tool, please return it.

Be respectful to your fellow students; everyone is here to learn, and it's better when we all work together. A rising tide elevates us all.

Ask questions! If you don't understand something please ask. The principles we study build upon each other, so if you don't understand something it will weaken your learning foundation. Please ask. The only stupid question is the one not asked.

## Course Content Advisory

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There will be a class fee of \$50 per term. This is a total of \$200 for the entire year. The fee is broken down by term to make it more manageable.

We will be using online materials primarily. If you need a hardcopy of anything it will be given to you or you will be notified. There are no required textbooks for this class.

## Brief Description of Assignments/Exams

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We will discuss each topic in the classroom and a lecture will be provided. Once the lecture is complete, there will be a lab demonstration conducted by the instructor. After the lab demonstration you will be given an assignment for you to complete. This will give you hands-on learning on each topic of instruction.

## Assignment Schedule

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| Due Date | Assignment Name                                   | Assignment Type | Points |
|----------|---|-----------------|--------|
|          | <a href="#">Introduce Yourself</a>                | Discussion      | 0      |
|          | <a href="#">Introduce Yourself</a>                | Discussion      | 0      |
|          | <a href="#">Roll Call Attendance</a>              | Assignment      | 100    |
|          | <a href="#">Roll Call Attendance</a>              | Assignment      | 100    |
| 8/26/24  | <a href="#">Safety and Pollution Prevention</a>   | Assignment      | 150    |
| 12/5/24  | <a href="#">Engine Disassembly and Reassembly</a> | Assignment      | 100    |
| 12/6/24  | <a href="#">Week of Aug 26 2024</a>               | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of August 20, 2024</a>           | Assignment      | 40     |
| 12/6/24  | <a href="#">Week of Dec 2 2024</a>                | Assignment      | 40     |
| 12/6/24  | <a href="#">Week of Nov 11 2024</a>               | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Nov 18, 2024</a>              | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Nov 25 2024</a>               | Assignment      | 20     |
| 12/6/24  | <a href="#">Week of Nov 4 2024</a>                | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Oct 28 2024</a>               | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Oct. 14 2024</a>              | Assignment      | 30     |
| 12/6/24  | <a href="#">Week of Oct. 21 2024</a>              | Assignment      | 50     |

| Due Date | Assignment Name                      | Assignment Type | Points |
|----------|--------------------------------------|-----------------|--------|
| 12/6/24  | <a href="#">Week of Oct. 7, 2024</a> | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Sept 16 2024</a> | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Sept 23 2024</a> | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Sept 3, 2024</a> | Assignment      | 40     |
| 12/6/24  | <a href="#">Week of Sept 30 2024</a> | Assignment      | 50     |
| 12/6/24  | <a href="#">Week of Sept 9 2024</a>  | Assignment      | 50     |

## Grading Scale

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100% - 80% = A

>80% - 70% = B

>70% = E or F

## Academic Integrity

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Please do your own work. Make sure you understand each assignment before you move on.

No cheating, it will not be tolerated. The only getting cheated is yourself.

## How to Navigate to Canvas

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## Institutional Policies

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As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

## [Learning Support and Tutoring Services](#)

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We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

## [Advising and Counseling Support Services](#)

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At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

## [Student Academic Calendar](#)

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As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)