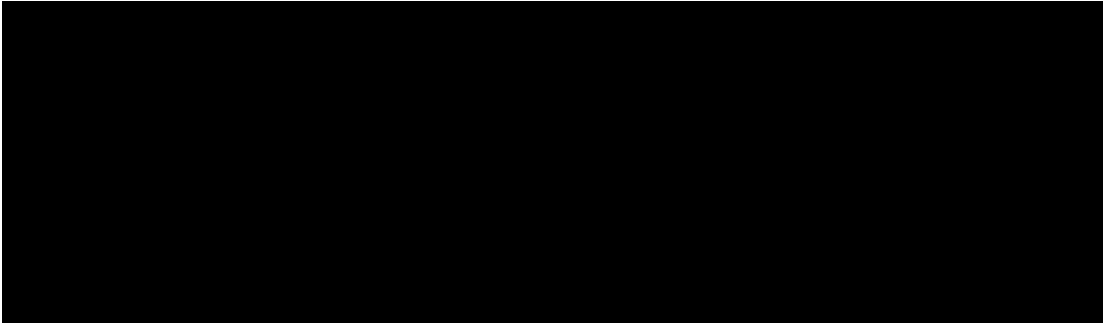


PE and Motorcycle Fundamentals

TEPM1030 251

Instructor Information



Course Description

Program consisting of safety, proper use of hand and shop tools, fasteners, fuels, lubricants & coolants, 2 & 4 stroke motorcycle engine theory, proper use of reference materials, and physical principles of engine operation. Course includes electrical theory and repair of chassis harnesses, charging, starting, ignition & lighting systems, and fuel systems. This course is part 1 of 2.

Semester(s): Spring

The course covers the construction, operation, maintenance, service, and repair of motorcycle systems and components. The comprehensive textbook also includes information on ATVs, UTVs, and scooters, and content is applicable to all makes and models. The instructor will cover the book during class time and students will diagnose engine problems and repair them during lab time. Class will run from 9:00 AM till 9:50 AM and lab time will be from 10AM till 1:50 PM daily. All machines to be worked on will be checked in through Paul Felt and there will be a \$10 lab fee as well as all parts needed to complete the repair. This class will work on two and four cycle engines in many different motorcycles, ATV's and marine applications. Safety will be enforced and anything less than professional behavior will not be acceptable.

Course Student Learning Outcomes

- Recognize and maintain safety in the shop as well as personal work habits.
- Identify, use and differentiate choices between correct tools, including precision measuring instruments, understanding the appropriate tool for the situation.
- Identify, describe and summarize the structure of an atom, the fundamentals of electricity and electrical circuits, the relationship of magnetism with electricity, and electrical component construction and operation.
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Course Prerequisites

None

Engagement Plan

Example language:

- I will respond to email within 24 hours. I will offer feedback on major assignments within 1 week. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Keys for Success (how to succeed in the course)

Show up on time every day.

Stay on task during lab and class.

If you run out of work, ask the instructor for something to work on.

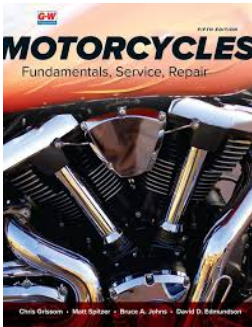
Keep your time sheets up to date.

Do the work assigned.

Course Content Warnings/Trigger Warnings

In this class we will get dirty. There will be loud noises and flashing lights.

Required Text or Materials



Title: Motorcycles, Fundamentals, Service, Repair

ISBN: 978-1-68584-448-6

Authors: Grissom, Spitzer, Johns, Edmundson

Publisher: Goodheart-Wilcox Company

Publication Date: 2024

Edition: 5th

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Brief Description of Assignments/Exams

A quiz for each chapter and a test for each section, and a final exam are given for this class. The quizzes are open book/notes with three attempts provided for each quiz, the tests are closed book unless specified and can include multiple choice, true/false, short answer and essay type questions. All course activities are listed in order in the Canvas modules. Points and grading are included in Canvas.

All assignments including due dates are listed in the Canvas modules. They are also listed chronologically in your Canvas calendar. Assignments can be submitted in person (on paper) or submitted electronically in canvas. To submit an assignment in Canvas electronically, message the instructor from your Canvas mailbox, note in the subject line

which assignment the message is related to, attach a Word document or Google docs link to the message and send. If using Google docs make sure to give the instructor permission to open document. The file type must be openable in Canvas.

Read the text chapters indicated in each section. Pay attention during lecture and review additional information provided. Questions included on tests or quizzes are often derived from the additional presented materials.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Acknowledgement of Syllabus	Quiz	50
	Chapter 1 Quiz	Quiz	20
	Introduce Yourself	Discussion	0
	Roll Call Attendance	Assignment	100
1/19	Chapter 2 Quiz	Quiz	20
1/22	Chapter 3 Quiz	Quiz	20
2/2	Chapter 9 Quiz	Quiz	27
2/23	Chapter 7 Quiz	Quiz	25
3/7	Univ. of Polaris Indian Motorcycle: Powertrain	Assignment	10
3/7	Univ. of Polaris Introduction to the Polaris Technician Training Program for Students	Assignment	10

Grading Scale

Grades will be assigned for performance in accordance with the policy outlined in the college catalog. The final grade is based upon the total number of points received in several areas as described in detail within the Course Outline/Assignment Schedule. The final grade will be computed using the grading matrix as follows: (lab hours in parenthesis for each section)

A 100.0% - 92.5% (41.0-37.9) C- < 72.0% - 70.0% (29.9-28.6)

A- < 92.5% - 89.5% (37.8-37.0) D+ < 70.0% - 67.0% (28.5-27.6)

B+ < 89.5% - 86.5% (36.9-35.8) D < 67.0% - 63.0% (27.5-25.8)

B < 86.5% - 82.5% (35.7-34.2) D- < 63.0% - 60.0% (25.7-24.6)

B- < 82.5% - 79.5% (34.1-32.8) E < 60% - below (24.5- below)

C+ < 79.5% - 76.5% (32.7-31.6)

C < 76.5% - 72.0% (31.5-30.0)

Note: The grade C or better is required to pass this course.

Extra Credit is not available unless specifically assigned by the Instructor.

How to Navigate to Canvas

Institutional Policies

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.

You can access the document by clicking on the following link:

<https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>

Learning Support and Tutoring Services

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, please visit the Institutional Syllabus under the Tutoring and Learning Support tab:

<https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. 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

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, please visit the Institutional Syllabus under the Advising and Counseling Support Services tab: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. 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

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](#)

Additional Policies

Required Safety and Pollution Prevention Training

The students in this course will complete the Safety and Pollution Prevention training. When students have completed these modules on-line they can then start working in the shop on equipment. This is a long course that will take you some time to complete, and I encourage you to do it quick, after completion, bring your instructor a copy of the completion certificates, and this will earn you points as well as be your ticket to work in the shop.

Lab clean-up days noted in the Canvas calendar are mandatory. Your attendance and participation will be noted. We will also have additional clean-up days as necessary based on lab condition. Remember that potential employers tour our facilities and it is in your best interest to leave a good impression. Your participation in lab cleaning/maintenance is required.