

POWERSPORTS AND SMALL ENGINE REPAIR TECHNOLOGY - ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: <https://cwi.edu/program/powersports-and-small-engine-repair-technology>

Certificate Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Diesel, Automotive, and Powersports Technology
- **Program Code:** PSER.ATC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

Certificate Requirements

Course	Course Title	Min Credits
General Education Requirements		
<i>Complete one of the following recommended courses to fulfill the GEM 1 or GEM 2 requirement:</i>		
Select one of the following:		
ENGL 101	Writing and Rhetoric I ¹	3
COMM 101	Fundamentals of Oral Communication ¹	
<i>Complete the following recommended course to fulfill the GEM 3 requirement:</i>		
MATH 118 & 118L	Technical Math and Technical Math Lab ¹	3
<i>Complete the following recommended course to fulfill the GEM 6 requirement:</i>		
ECON 201	Principles of Macroeconomics ¹	3
Major Requirements		
PSER 105	Foundations of Safety and Tools	3
PSER 110	Dealership Operations	3
PSER 111	Basic Fuel Systems and Outdoor Power Equipment Maintenance	6
PSER 112	Outdoor Power Equipment Engines	3
PSER 125	Basic Electrical Systems	3
PSER 130	Drivetrain and Chassis Components	6
PSER 200	Powersports Maintenance and Light Repair	3
PSER 240	Engine Management and Advanced Fuel Systems	3
PSER 245	Advanced Electrical Systems and Diagnostics	3
PSER 250	Powersports Engines	3
PSER 255	Suspension Technology	3
PSER 260	Dynamometer and Performance Technology	3
PSER 293	Powersports and Power Equipment Internship	6
Minimum Credit Hours Required		57

¹ The general education (GE) courses listed above are recommended by the department as the most beneficial GE options for students in this program. **Please note that students may fulfill their GE requirements by completing another course from within the applicable general education category.**

Plan of Study Guide

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this Plan of Study Guide. Please register for each semester as shown using the Student Planning tool in myCWI. Consult your Student Success Advisor for any questions regarding this course sequence plan.

****NOTE****

Powersports and Small Engine Repair Technology (PSER) majors are required to complete three general education courses in order to receive an Advanced Technical Certificate. While it is recommended that students complete all three of their required general education courses during the spring

and/or summer semester(s) prior to beginning the program, students may elect to complete GEM courses during regular semesters while enrolled in PSER courses or during the summer semester between their first and second year in the program.

First Year

Fall		Credit Hours
Select one of the following:		3
COMM 101	Fundamentals of Oral Communication (Recommended GEM 2) ¹	
ENGL 101	Writing and Rhetoric I (Recommended GEM 1) ¹	
PSER 105	Foundations of Safety and Tools	3
PSER 110	Dealership Operations	3
PSER 111	Basic Fuel Systems and Outdoor Power Equipment Maintenance	6
Total Semester Credit Hours		15

Spring		
MATH 118 & 118L	Technical Math and Technical Math Lab (Recommended GEM 3) ¹	3
PSER 112	Outdoor Power Equipment Engines	3
PSER 125	Basic Electrical Systems	3
PSER 130	Drivetrain and Chassis Components	6
Total Semester Credit Hours		15

Second Year

Fall		
PSER 200	Powersports Maintenance and Light Repair	3
PSER 240	Engine Management and Advanced Fuel Systems	3
PSER 245	Advanced Electrical Systems and Diagnostics	3
PSER 255	Suspension Technology	3
Total Semester Credit Hours		12

Spring		
ECON 201	Principles of Macroeconomics (Recommended GEM 6) ¹	3
PSER 250	Powersports Engines	3
PSER 260	Dynamometer and Performance Technology	3
PSER 293	Powersports and Power Equipment Internship	6
Total Semester Credit Hours		15

Minimum Credit Hours Required 57

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Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the appropriate mastery of knowledge and skills that are identified by the Program Task List to become a successful entry-level powersports and/or power equipment and/or related industries technician.
- Demonstrate the ability to identify, analyze, and solve technical problems associated with being an entry-level powersports and/or power equipment and/or related industries technician.
- Identify the different career opportunities available within the powersports and outdoor power equipment industries.
- Demonstrate the ability to effectively provide a high level of customer service within all aspects of the powersports and outdoor power equipment industries.
- Demonstrate knowledge and understanding of safety practices specifically related to Powersports and Small Engine Repair Technology at CWI.
- Demonstrate proper work habits and ethics.
- Demonstrate the ability to communicate effectively.