



**DEPARTMENT OF AUTOMOTIVE AND PARTS**

**COURSE OUTLINE – FALL 2012 SEMESTER A**

**OCTOBER 29 – DECEMBER 21, 2012**

**HA 131 WORKSHOP PRACTICES I – 12.5 CREDITS 210 HOURS**

**INSTRUCTOR:** Ryan Peterson      **PHONE:** 780.835.6733  
TBA  
**OFFICE:** FTI 224      **E-MAIL:** RPeterson@GPRC.ab.ca

**OFFICE**                      Monday through Friday.  
**HOURS:**                      8:00 – 8:30 a.m. and 4:00 – 5:00 p.m.

**PREREQUISITE(S)/COREQUISITE:** None.

**REQUIRED TEXT/RESOURCE MATERIALS:** None.

**CALENDAR DESCRIPTION:** This lab includes the safe use and care of hand and power tools, general workshop safety, safe vehicle handling and hoisting and safe workshop habits and conduct. Hydraulic brake inspection, repair and testing, as well as, basic anti-lock brake (ABS) testing and servicing are performed. Steering and suspension system testing, inspecting, repair and adjusting are performed. Electrical system testing and repair are covered in this course. Whenever possible, the students will work on vehicles which are in daily operation.

Delivery Option – Fairview Campus Only

**CREDIT/CONTACT HOURS:** 12.5 credits; 15 hours per week; 14 weeks; 210 hours.

**DELIVERY MODE(S):** Instructor led; hands on; project based.

## **OBJECTIVES:**

Upon completion of this course the student will be able to:

1. Measure components using common measuring tools.
2. Correctly and safely use common specialty hand tools.
3. Practice workshop safety.
4. Diagnose service and repair drive lines including C-V joints.
5. Measure frames and identify damage.
6. Service and repair common suspension systems and steering linkages.
7. Diagnose faults and service wheels, tires and bearings.
8. Diagnose service and repair manual and power steering gears.
9. Perform 2 wheel, 4 wheel and thrust angle wheel alignments.
10. Service and repair steering columns and supplemental, inflatable, restraint (air bag) systems.
11. Diagnose steering and alignment problems.
12. Perform tests to verify electrical system malfunctions.
13. Service, test, diagnose batteries.
14. Test and repair typical vehicle electrical circuits.
15. Use scan tools to test electronic systems.
16. Diagnose and service active and passive restraint systems.
17. Service and repair common drive lines

**TRANSFERABILITY:** None.

**GRADING CRITERIA:** Students must complete all required courses with a grade point average of no less than 2.00 and no failing (F) grades. Credit mark of 63%.

<b>GRANDE PRAIRIE REGIONAL COLLEGE</b>			
<b>GRADING CONVERSION CHART</b>			
<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage Guidelines</b>	<b>Designation</b>
<b>A<sup>+</sup></b>	<b>4.0</b>	<b>90 – 100</b>	<b>EXCELLENT</b>
<b>A</b>	<b>4.0</b>	<b>85 – 89</b>	
<b>A<sup>-</sup></b>	<b>3.7</b>	<b>80 – 84</b>	<b>FIRST CLASS STANDING</b>
<b>B<sup>+</sup></b>	<b>3.3</b>	<b>77 – 79</b>	
<b>B</b>	<b>3.0</b>	<b>73 – 76</b>	<b>GOOD</b>
<b>B<sup>-</sup></b>	<b>2.7</b>	<b>70 – 72</b>	
<b>C<sup>+</sup></b>	<b>2.3</b>	<b>67 – 69</b>	<b>SATISFACTORY</b>
<b>C</b>	<b>2.0</b>	<b>63 – 66</b>	
<b>F</b>	<b>0.0</b>	<b>60 – 62</b>	<b>FAIL</b>
<b>F</b>	<b>0.0</b>	<b>55 – 59</b>	
<b>F</b>	<b>0.0</b>	<b>50 – 54</b>	
<b>F</b>	<b>0.0</b>	<b>0 – 49</b>	
<b>WF</b>	<b>0.0</b>	<b>0</b>	<b>FAIL, withdrawal after the deadline</b>

**EXAMINATIONS:** Project evaluations based on Rubric 1 – 5.

- 1 – cannot do
- 2 – can do with continuous help
- 3 – requires some help and extra time
- 4 – requires extra time but no help
- 5 – can do well enough to help others

**STUDENT RESPONSIBILITIES:**

Please refer to the Student Rights and Responsibilities policy in the Grande Prairie Regional College Calendar or at

[www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf](http://www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf).

## **STATEMENT ON PLAGIARISM AND CHEATING:**

Please refer to

[www.gprc.ab.ca/downloads/documents/Student%20Misconduct%20Plagiarism%20and%20Cheating.pdf](http://www.gprc.ab.ca/downloads/documents/Student%20Misconduct%20Plagiarism%20and%20Cheating.pdf) regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

**COURSE SCHEDULE/TENTATIVE TIMELINE:** 15 hours/week for 14 weeks in Semester A.