VICTOR VALLEY COLLEGE SYLLABUS

SPRING 2018

# Course No.: Course No.: Auto 57 Course Title: Automotive Brake/Wheel Alignment Units: 12

# Section No.: 64114 Class Hours: !:00 pm to 5:10 Days: Mon. thru Fri. Room No.: Bld. 67 rm 101

# Instructor Name : Dan Rowland Office No: 3 Tel. Ext.: 2293

# E-mail Address: dan.rowland@vvc.edu Course Title:

## SPRING CALENDAR

**Spring Term Begins February 12**

**Presidents Day Lincoln February 16**

**College Closed (no classes) February 17**

**Presidents Day Washington February 19**

**Spring Break (no classes-offices open) April 09 – 13**

**Spring Break Holiday (college closed) March 30**

**College Closed (no classes) March 31**

**Memorial Day Holiday (college closed) May 28**

**Commencement June 8**

**Spring Semester Ends June 9**

**Sixteen (16) week term February 12 – June 9**

**Off-Campus Twelve (12) week term February 12 – May 12(Does not follow VVC calendar, see that site’s calendar)**

**First Twelve (12) week term February 12 – May 12**

**Second Twelve (12) week term March 12 – June 9**

**First Eight (8) week term February 12 – April 7**

**Second Eight (8) week term April 16 – June 9**

## WITHDRAWAL POLICY

**NOTE** – **CAMPUS IS CLOSED and** **CLASSES WILL NOT BE HELD ON CAMPUS THE FOLLOWING DATES:**

**February, 16th, 14th, 19th, March 30th, 31st, April 9th, 10th, 11th, 12th, 13th, 14th, and May 28th**

STATEMENT OF ACCESS: Students with special needs are encouraged to meet with instructors to discuss the opportunity for academic accommodation and referral to Disabled Students Programs and Services (DSPS) and services per Administrative Procedure (AP 3440)

**Visit Victor Valley College online at** [**www.vvc.edu**](http://www.vvc.edu/)

## Prerequisite:

Auto 50

## Textbook:

CDX Automotive Fundamentals Of Automotive Technology **Second Edition** ISBN: 978-4496-7108-2

CDX Automotive Light Vehicle Tasksheet Manual for NATEF proficiency 2013 edition

Auto 57 NATEF A4/A5 Lab Sheet Packet & sign off sheet

You are not required to put the following information in your syllabi but I have included them just I case they will help you.

**Book Store Voucher Statement**

Under certain circumstances if you have already completed your FAFSA documentation and have received and “Award Letter” but have yet to be funded you may be able to receive a bookstore voucher of up to $400.00 depending on funding and eligibility. If you meet all requirements and timing guidelines you will need to complete the following:

1. Download and print your current class schedule
2. Download and print your “Award Letter” from the “My Documents” tab in your WebAdvisor Account.
3. Bring both documents and your current VVC student ID to the Accounting Office at VVC in the Student Activities Center across the hallway from the bookstore to determine final eligibility.

**CDX**

Access to CDX on-line Automotive Training can be purchased through the VVC book store or the VVC book stores website. You can also purchase directly from the CDX website.  CDX is a required component of this class and it is how you will access all of the course material and the ability to take chapter tests and the final exam.  In short, you cannot pass this class unless you have your own personalized access to CDX you will not be able to share with another student.  Your subscription is valid for one year. If your financial aid has not yet been funded, in some instances the book store will allow a book store voucher contingent on your financial aid funding. You should speak to your financial aid representative for more information.

After creating your CDX account please enter VVC course code: FE2374

If you do not enter that code you will not get credit for any of the work completed on CDX

Light Vehicle 1 year on-line access code ISBN 9781284027327

If you would like to order it direct please call 800-832-0034 option #2, they only accept credit card payment. Use coupon code 2015KF25 and mention Karyn Fancher to receive a substantial

## Course Description:

This course covers: Function, Identification, Usability, Diagnosis and Repair of most major components of the Automotive Brake Systems, including Drum, Disc, and ABS Systems. Function, Identification, Usability, Diagnosis and Repair of most major components of the Automotive Suspension and Steering Systems, including Conventional and Rack and Pinion steering systems, SLA and Strut Suspensions, 2 and 4 wheel alignment procedures

## Course Objectives:

|  |
| --- |
| 1. Safely and responsibility perform automotive repairs while minimizing impact on the environment.  |
| 2. Complete a basic diagnosis and repair of the disc and drum brake systems.  |
| 3. Complete a basic diagnosis and repair of the suspension system.  |
| 4. Complete a basic 2 and 4 wheel alignment |

## Student Learning Outcomes:

|  |
| --- |
| 1. Safely and responsibility perform automotive repairs while minimizing impact on the environment.  |
| 2. Complete a basic diagnosis and repair of the disc and drum brake systems.  |
| 3. Complete a basic diagnosis and repair of the suspension system.  |
| 4. Complete a basic 2 and 4 wheel alignment |

## Grading Policy:

Attendance Policy: (Class attendance is not a measure of performance or proficiency. Whether a student is just physically present in the class is not a valid basis for grading. Reference Title 5 Section 55002 of the California Code of Regulations: (A) Grading Policy. The course provides for measurement of student performance in terms of stated course objectives and culminates in a formal, permanently recorded grade based upon uniform standards in accordance with section 55758 of this Division. The grade is based on demonstrated proficiency in the subject matter and the ability to demonstrate that proficiency, at least in part, by means of written expression that may include essays, or, in courses where the curriculum committee deems them to be appropriate, by problem solving exercises or skills demonstrations by students.)

The final grade in the class will be based on the following class activities:

 Lab work\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 60%

 Home work\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 20%

 Section Tests & Quizzes\_\_\_\_\_\_\_\_\_\_\_\_ 10%

 Participation\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10%

Points are assigned to lab work and to tests and homework. 90% or above will be an “A”, 80% to 89.9% will be ”B”, 70% to 79.9% will be a “C”, and 50% to 69.9% will be a “D” and below 49.9% will be a “F”. Each class activity will be graded separately and the final grade will be determined by using the percentages stated above

### Class Attendance Policy:

Students are expected to attend every class. Excessive absences will cause the student to be dropped from the class. A student will be dropped after missing 3 consecutive absences, unless the student contacts the instructor and can show good cause why they should not be dropped. Leaving the class during a class period without approval from the instructor will be considered a full days absence. It is the students responsibility to drop the class before the drop date deadline indicated on the calendar, the instructor will post an FW grade for the final grade for that student.

### Homework:

Homework will be assigned on a weekly basis. All Home Work Must Be Typed Or Word Processed or it will Not Be Accepted For Grade....Students will be graded at the end of the semester on the homework they have completed. Late homework will not be accepted. Homework will be corrected at the beginning Fridays class period and will be corrected in class, homework is considered late if it is not turned in at the beginning of that class period, and the student will be given “0" points for that assignment.

### Tests:

A test will be given after each unit of instruction determined by the instructor . Test dates will be announced

Safety:

 All students will be given thorough safety instruction and S/P-2 safety test (must be passed with a grade of 80% or better or the student cannot participate in lab) Log on to the internet sp2.org website. Your user name is “78442”, your password is “fact” your pin is your last 6 digits of your student ID number. You will need to complete the training and pass the final exam for S/P2 Training for Mechanical Safety and S/P2 Training for Mechanical Repair Pollution and Prevention All lab rules and safety rules must be followed. Failure to follow these rule is caused to be dropped.

Lab Work:

Lab work gives the students the skills needed to become employed in the automotive repair field. It will count for 60% of the final grade. Students are expected to attend each days class. The total lab points will be calculated according the highest score obtained in the class for the semester, and graded on the grading scale listed above.

### Participation:

## Participation grade is determined by the instructor. The participation of the student in class either while in lab or lecture will affect this grade. This will account for 10% of the total grade. The students participation grade will based on 100 point scale. This based on 2 points per class session. The students are expected to clock in on the time clock at the beginning of the class session and at the end of the class session. This emulating the job environment to train the student in the practice of punctuality on the job site. The student could be asked to help complete shop work including moving supplies and material around, cleaning and arranging the Hazard material shed accordance with all safety requirements, cleaning different equipment including the brake lathes and brake parts washer in accordance with all safety requirements. Perform general shop maintenance. Points could be deducted for the following reasons at the discretion of the instructor.

## Time cards for class attendance will have 2 points per day reduced for every absence that is not excused by the instructor,

## Not showing up or arriving late or leaving early from class, without prior call. (1 point each occurrence)

## No safety glasses worn during lab. 1 point

## No proper lab attire during lab (sandals, shorts tank tops). 1 point

## No drug or alcohol impairment. 10 points

## No cell phone calls/texting/ games during lecture. 1 point

## Talking during lecture (separate student to student conversations) 1 point

## Not bringing Tools during lab sessions, Not bringing Text books on lecture days 1 points

TOOL SHEET 200 Points Instructor Initials\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_\_\_

1. Tool box

2. 1 hammer ball-peen ( 12 or 16 oz )

3. 1 set flat tip screwdrivers (more than2)

4. 1 set cross tip screwdrivers (Phillips type, more then 2)

5. 1 Half inch drive socket set ( 1/2" to 1")

6. 1 Three eighth inch drive socket set ( 3/8" to 3/4")

7 1 Metric set of sockets 3/8 " or 1/2 " drive (10 mm to 19 mm)

8. 1 Half inch drive ratchet

9. 1 Three eights inch drive ratchet

10. 1 6" extension 1/2 drive

11. 1 3" extension 3/8 drive

12. 2 pair slip jaw pliers 6" and 12" (Channel lock type)

13. 1 pair combination pliers

14. 2 pair vice grip pliers 6" needle nose and round nose

15. 1 pair needle nose pliers

16. 1 putty knife

17. 1 pair safety glasses or goggles

18. 1 set combination end wrench's 3/8" to 3/4"

19. 1 set combination end wrench's 10mm to 19mm

20. 1pair diagonal cutters

21. 2 universal joints (1) 1/2" drive (1) 3/8" drive

22. 1 adapter from 3/8 drive to 1/2 " drive

23. Tire core removing tool

24. 1 box Nitrile gloves

25. 1 Box of quart zip lock type bags

26. 1 box of gallon zip lock type bags

27. 1 flashlight

28. CDX Automotive Text Book Fundamentals of Automotive Technology

29. Black Sharpie type marker

After This sheet has been signed by the Instructor It is to be stapled to the last page of the NATEF A4/ A5 lab sign off sheet.