VICTOR VALLEY COLLEGE SYLLABUS

FALL 2017

# Course No.: Auto 55.0 Course Title: Standard Trans/Differential Overhaul Units: 5

# Section No.: AUTO-55.0-63103 Class Hours: 4:00PM – 8:45P Days: Mon/Wed BLDG NO: 67 Room No.: 101

# Instructor Name: Larry Beaudin Office No: 760-953-3751 Tel. Ext.: N/A

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## FALL CALENDAR

**FALL Term Begins August 28**

**Labor Day Holiday (college closed) September 4**

**Veteran’s Day Holiday (college closed) November 10- 11**

**Thanksgiving Holiday (college closed) November 23-25**

**FALL Term Ends December 16**

**Sixteen (16) week term August 28 – December 16**

**Off-Campus Sixteen (16) week term August 28 – December 16 (Does not follow VVC calendar,**

 **see that site’s calendar for holidays)**

**First Twelve (12) week term August 28 - November 18**

**Second Twelve (12) week term September 25 – December 16**

**First Eight (8) week term August 28 – October 21**

**Second Eight (8) week term October 23 – December 16**

## WITHDRAWAL POLICY

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

**September 4th, November 10th, 11th, 23rd, 24th, 25th**

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

A minimum grade of C

Validated Date: 12/01/2015

Reviewed with discipline staff

## Textbook:

CDX Auto Online Access Required:

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 discount.

## Course Description:

This course covers diagnosis and repair of the components of standard transmission and differential systems, gears, synchronizers, bearings, clutches, and electronic

controls. Standard transmissions and related parts will be disassembled,

inspected and determination made of the serviceability of existing parts. The

need for replacement parts will be established as the components are

disassembled, inspected, and reassembled.

## Course Objectives:

Upon completion of the course the student should be able to:

Identify and analyze gears and internal components of a manual

transmission.

1. Identify and analyze gears and internal components of a manual

transmission

a. Exams/Tests/Quizzes

b. Group Projects

c. Class Participation

d. Class Work

e. Home Work

f. Lab Activities

g. Competency based written and practical tests which

demonstrates the student’s ability to apply skills and concepts

learned to minimum standards established by the instructor

2.Dissasemble, measure and evaluate repair and reassemble a

manual transmission.

a. Exams/Tests/Quizzes

b. Projects

c. Group Projects

d. Class Participation

e. Class Work

f. Home Work

g. Lab Activities

h. Competency based written and practical tests which

demonstrates the student’s ability to apply skills and concepts

learned to minimum standards established by the instructor

3. Identify and analyze the case and internal components of a

differential.

a. Exams/Tests/Quizzes

b. Projects

c. Group Projects

d. Class Participation

e. Class Work

f. Home Work

g. Lab Activities

h. Competency based written and practical tests which

demonstrates the student’s ability to apply skills and concepts

learned to minimum standards established by the instructor

4.The student will be able to identify safety hazards in an auto repair

shop/lab. Safely perform automotive repairs using tools and

equipment in an auto shop/lab.

a. Exams/Tests/Quizzes

b. Projects

c. Group Projects

d. Class Participation

e. Class Work

f. Home Work

g. Lab Activities

h. Competency based written and practical tests which

demonstrates the student’s ability to apply skills and concepts

learned to minimum standards established by the instructor

## Student Learning Outcomes:

Disassemble, measure, diagnose, analyze, repair, and reassemble

rear wheel drive transmissions.

1.Disassemble, measure, diagnose, analyze, repair, and reassemble

front wheel drive transmissions.

2.Disassemble, measure, diagnose, analyze, repair, and reassemble differentials.

3.Recognize and identify shop safety. Safely and responsibly perform

automotive repairs while minimizing negative impact on the

environment.

4. Recognize and identify shop safety. Safely and responsibly perform

automotive repairs while minimizing negative impact on the

environment

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.)

## Grading Policy:

|  |  |
| --- | --- |
| **Grade Value** | **Grading Scale** |
| **SP-2** | **5%** | **100% to 90%** | **A** |
|  **Homework Assignments** | **20%** | **89% to 80%** | **B** |
| **Lab Assignments** | **30%** | **79% to 70%** | **C** |
| **Quizzes** | **20%** | **69% to 60%** | **D** |
| **Final Exam** | **25%** | **59% or Below** | **F** |

**SP2 Shop Safety Program:** All students participating in courses within the automotive program must pass four safety courses on the SP2 website. The safety program contained on this website is intended to educate the students on both safety and environmental concerns regarding the automotive industry. The student should log onto the website using the following information and complete both final exams with a grade of 80% or greater. The student will have five attempts at the final exam before the exam will need to be reset by the instructor. Upon completion of each exam the student can print out a certificate suitable for framing or inclusion with a resume.

**SP2 Exam Instructions:** After the instructor registers the student in the SP2 System, the student can use a computer at home or at the college to log into [www.sp2.org](http://www.sp2.org) using **78442** as the **Account ID**, **fact** as the **Password**, and finally the **last six digits of your college ID#** as the **PIN**. Once on the site, complete the ‘Mechanical Safety’ and ‘Mechanical Pollution Prevention. Your Student ID# can be found on the receipt you received at registration or from your instructor.

**Course Requirements:**

**Each Student is required to purchase CDX Auto Access Code.**

**Each Student is required to complete SP2 Safety Exams.**

**Each Student is required to purchase and take the Student ASE test. The cost is**

**35.00 and will be given the last two weeks of the course.**

**Each Student is required to complete all Homework Assignments.**

**Each Student is required to complete all Tests and Quizzes.**

**Each Student is required to complete their NATEF Lab sheets assignments.**

**Each Student is required to supply their own safety glasses.**

**Each Student is required to purchase a VVC Auto Shirt.**

**Homework Assignments:** will be assigned by your instructor and must be completed by the due date.

**Lab Project:**  Every lab project or lab vehicle must have a repair order and a NATEF Lab sheet assigned to it. NATEF lab sheets are available from CDX Auto. Safety glasses and VVC auto shirt must be worn during lab. All lab work must be approved by your instructor.

**Quizzes:** Quizzes maybe given at any time and are based on class lectures.

**Tests**: Tests will be assigned by your instructor and are accessed through blackboard.

**Final Exam:** The final exam will be the ASE Student Test.