INSTRUCTOR: OFFICE: OFFICE HRS: LECTURE: COURSE:	MONWED. 1:30-2:30 pm, THURS. 1:30-2:30 pm. TUESDAY, THURSDAY, & FRIDAY
DATE:	FALL
TEXTS:	
	1. MANUAL TRANS & TRANSAXLE (Class)2nd Ed.ERJAVEC
	MANUAL TRANS & TRANSAXLE (Lab)2nd EdERJAVEC 2. AUTOMATIC TRANS (Class) 3rd Ed CHEK- CHART
	<u>AUTOMATIC TRANS</u> (Lab) 3rd Ed CHEK-CHART
	3. GUIDE TO AUTO CERT. EXAMINATION HUGHES
GRADING:	Straight percentage system (70% passing)
	1. Quizzes 1/3
	a. Notebook (notes, hand-outs, tests) 2. Lab
	a. Technical Reports
	b. Hands-on Evaluation
	3. Final Exams
	a. Specific Areas1. Manual Drive Train and Clutch/Support
	Systems
	2. Automatic Transmission
	TOTAL GRADE
	4. ATTENDANCE may play a factor if you are to
	successfully pass this course.
	 a. <u>Three</u> absences allowed per semester for all Instructors.
	b. <u>Three</u> tardies equal <u>one</u> absence. Please be on time.
	5. Mid-term grade will be calculated by quiz and
	exam scores only. The deadline to drop the
	course without penalty will be Oct. 16 (Friday). 6. A computer print-out will be distributed or
	posted periodically with your grade total.
	It is your responsibility to keep returned
	tests, quizzes, and homework assignments for
	grade disputes. KEEP TRACK OF YOUR PERFORMANCE.

ASSIGNMENTS:	
	1. Reading assignments will be assigned after
	each lecture period or student will follow
	assignment schedule.
	 Tests and quizzes can be given at any time. Make-up of tests and quizzes
	 Make-up of tests and quizzes a. It is the students responsibility to
	contact Instructor.
	b. Test or quiz cannot be made-up if:
	1. Reviewed in class.
	2. Excuse for absence unacceptable.
	3. Student is limited to two make-ups per
	semester.
	 c. Make-up quizzes will be arranged by
	instructor.
	4. All homework, special assignments, and technical
	(lab) reports, will be handed-in on the assigned
	date. All late assignments will be penalized a
	minimum of one grade and one grade for each day
	late if allowed to be handed in late (discretion
* * * * * * * * * * * * * * * * * * * *	of Instructor).
LAB:	1. Time (approx.) in lab per group.
•	 Time (approx.) in lab per group. a. 12 days Manual Transmission and Clutch
	and support systems
	(1) 6 days manual transmission
	(2) 6 days demos and live-car repair
	b. 12 days Automatic Transmission
	(3) 6 days automatic transmission
	(4) 6 days demos and live-car repair
CLASS LECTURE	AND READING SCHEDULE
	anual Transmissions and Transaxle (Class & Lab)
(2) <u>A</u> i	<u>utomatic Transmission</u> (Class & Lab)
	Waltand and
Week 1	
week 2-7	
Week 8-13	Automatic Transmission
MCCV 0 12	, , , , , , , , , , , , , , , , , , ,
Manual Transm	ission and Clutch/Support Systems
Saginaw four	speed transmission Hand-out
<u></u>	
1. Sa	afety (Class) Chapter 1
Sa	afety (Lab) Chapter 1
Ва	asic Tools/Procedures (Lab) Chapter 2
2. Di	rive Train Theory (Class) Chapter 2
3. Ma	anual Transmission/Transaxles (Class) Chapter 4
Se	ervicing Transmissions/Transaxles (Lab). Chapter 4
4. Be	earings and Seals Lecture
5. C	lutches (Class)
Se	ervicing Clutches (Lab) Chapter 3

6. 7.	Four-Wheel-Drive Systems (Class) Servicing Four-Wheel-Drive Systems Drive Train Electrical		
	Electronic Systems (Class) Servicing Drive Train	• • •	Chapter 9
	Electrical Systems (Lab)	(Chapter 9
	comatic Transmission 1 350	1	Handout
1.	missions and Transaxles	_	
	Conversion	Chapter	l (Lab)
2.			
3.	Apply Devices	Chapter	6 (Class)
4.	In Chassis Adjustment and Service . Transmission Fluids, Filters, and	Chapter	3 (Lab)
	Coolers	=	7 (Class)
	Cooler Service		
5.	Hydraulic Fundamentals	Chapter	3 (Class)
6.			
7.		-	
• •	verters	Chanter	5 (Class)
	Torque Converter Testing and	Chapter	J (CIGDD)
		Chanter	0 (Tab)
•	Service	Chapter	o (Lab)
8.			A (= 1)
	Fundamentals	Chapter	9 (Lab)
9.	Electronic Control Systems	Chapter	10 (Class)
	Electronic Control System		
	Service	Chapter	5 (Lab)
Lab Reading	Assignment:		
1.			
	Inspection	Chapter	9 (Lab)
2.	Gaskets, Seals, Bushings, Bearings,		
	Washers, and Snaprings	Chapter	8 (Class)
3.	Gasket, Seal, Bushing Replacement,	_	
	and Thread Repair	Chapter	10 (Lab)
4.	Unit Assembly		
	Transmission Bench Testing		
~•	12 didnition of bottom 1000 ting 1	oapoer	(/
COURGE PROG	DIDMION AND GOAL.		

COURSE DESCRIPTION AND GOAL:

To comprehend and critically evaluate the operation of the automotive gear train: manual transmission and clutch/support systems and automatic transmission. The combination of lecture and lab will enable the student to successfully trouble-shoot, disassemble, and assemble to specifications all the gear trainsystems listed above. The student will be evaluated by technical and oral reports, hands-on efficiency, and quizzes and exams. A grade of 70% must be obtained to successfully pass the course. GLAD TO HAVE YOU THIS FALL!

REEDLEY COLLEGE INSTRUCTOR: MR. GUZMAN

AUTOMOTIVE TECHNOLOGY FALL 1998

OFFICE NUMBER: 638-3641 EXT. 3292

LOCATION: AUTOMOTIVE SHOP

OFFICE HOURS: MON.1:30-2:30 PM TUE. 1:30-2:30 PM WED. 1:30-2:30

TEXT: AUTOMOTIVE ENGINE REBUILDING by JAMES G. HUGHES

SUGGESTED SUPPLEMENTAL READING: HOW TO REBUILD YOUR SMALL BLOCK CHEVY BY JAMES HUGHES

READING ASSIGNMENTS: ALL PRESCRIBED READING ASSIGNMENTS ARE DUE ON DATES SPECIFIED IN THE STUDY SCHEDULE.

ADDITIONAL ASSIGNMENTS MAY BE REQUIRED AS HANDOUTS.

QUIZZES: THERE ARE NO MAKEUP FOR QUIZZES MISSED. QUESTIONS ON QUIZZES WILL COME FROM LECTURES AND READINGS ASSIGNMENTS.

EXAMS: THERE WILL BE ONE MIDTERM AND ONE FINAL EXAM. QUESTIONS ON MIDTERM WILL COME PRIMARILY FROM THE A. S. E. NATIONAL EXAM.

NOTEBOOK: A NOTEBOOK WILL BE REQUIRED FOR THE FALL SEMESTER. IT WILL INCLUDE A TITLE PAGE, TABLE OF CONTENTS, STUDY SCHEDULE, TASK SHEET, CLASS NOTES, ATTENDANCE RECORD, HANDOUTS, QUIZZES AND TESTS.

ATTENDANCE: IN THE WORK PLACE ATTENDANCE IS CRUCIAL. IF YOU ARE ABSENT MORE THAN THREE TIMES IN THE FIRST NINE WEEKS YOU WILL BE DROPPED FROM CLASS. THREE TARDIES EQUALS ONE ABSENCE.

COURSE OBJECTIVES: TO PROVIDE THE STUDENTS WITH THE BASIC SKILLS AND KNOWLEDGE NEEDED TO ENTER THE AUTOMOTIVE SERVICE TRADE AT THE ADVANCED APPRENTICE LEVEL. UPON COMPLETION OF THE PROGRAM, THE STUDENT SHOULD QUALIFY FOR THE (ASE) EXAMINATIONS AND QUALIFY AS A CERTIFICATED GENERAL AUTOMOTIVE TECHNICIAN ONCE THE A.S.E. EXPERIENCE REQUIREMENTS ARE MET.

ENGINE REBUILDING MR. GUZMAN FALL 1998

STUDY SCHEDULE READING ASSIGNMENTS

AUG. 17-21

CHAPTER 1 - SAFETY AND SHOP PRACTICE

AUG. 24-28

CHAPTER 2 - TOOLS AND EQUIPMENT

AUG. 31 - SEPT.4

CHAPTER 3 - BASIC REVIEW OF ENGINE OPERATION

SEPT. 7-11

CHAPTER 4 - DIAGNOSING THE NEED FOR ENGINE TEARDOWN

SEPT. 14-18

CHAPTER 5 - ENGINE IDENTIFICATION AND REFERENCE MATERIAL

SEPT. 21-25

CHAPTER 6 - REMOVEL OF ENGINE FROM VEHICLE

SEPT.28 - OCT.2

CHAPTER 7 - DISASSEMBLING THE ENGINE

OCT. 5-9

CHAPTER 8 - CLEANING PARTS

OCT. 12-16

CHAPTER 9 - MEASUREMENT INSPECTION

OCT. 19-23

CHAPTER 10-11 LOCATING CRACKS - ORDERING ENGINE PARTS

OCT. 26-30

CHAPTER 12-14 BLOCK RECONDITIONING - VALVE GUIDE AND ROCKER ARM SERVICE

NOV. 2-6

CHAPTER 15 - VALVE AND SEAT SERVICE

NOV 9-13

CHAPTER 16 - VALVE COMPONENTS

NOV. 16-20

CHAPTER 17 - ASSEMBLING THE CYLINDER HEAD

CHAPTER 18 - CAMSHAFT AND LIFTERS

NOV. 23-25

CHAPTER 19 - CRANKSHAFT AND FLYWHEELS

CHAPTER 20 - CONNECTING RODS AND PISTON PINS

NOV.30 - DEC.4

CHAPTER 21 - PISTON AND RINGS

CHAPTER 22 - BEARINGS CHAPTER 23 - OIL PUMPS

DEC. 7-11

CHAPTER 24 - SEALING THE ENGINE

CHAPTER 25 - ASSEMBLY AND BREAK-IN

DEC. 14-18 FINALS

LAB LESSON PLAN

AUG. 17-21

SHOP ORIENTATION\INSTRUCTION

AUG. 24 - SEPT. 17

DISASEMBLE, INSPECT, AND CLEAN ENGINE

SEPT. 18- OCT. 13

DISASEMBLE, INSPECT, AND CLEAN HEADS

OCT. 14 - NOV. 9

MACHINE AND ASSEMBLE HEADS

NOV.10 - DEC. 8

ASSEMBLE ENGINES

Automotive Electrical

Attendance and Grading Policy

Reading assignments are due each Mon. of each week for each subject. QUIZZES will be given each Mon., Wed., or Fri..
TESTS and EXAMS are given at the beginning, mid term, and end of the semester. MAKE UP quizzes will not be available after the third week of school. Near the end of the semester, a survey of each student's quizzes will be made, the lowest score will be dropped and not averaged.

All work submitted for grading must contain: student surname, student grade number, date, and subject. Any documentation error in the preceding will cause a grade of Zero.

GRADING POLICY:

Tests and Quizzes = 30% Final Exams = 30% Quality Shop Work & Documentation = 30% Employability = 10%

Possible Total = 100%

It is the student's responsibility to know his grade at all times during the semester. If you don't know your grade, first check the posted grades, and then ask your instructor. Be sure to retain all quiz and test cards.

The purpose of the KRCC Automotive Technician program is focused upon the employment needs of both the automotive service industry and the student. The technician training attempts to simulate the live tasks of the industry that it serves. Unfortunately, with the live industrial work comes the potential for serious accidents and/or property damage. The <u>safety</u> instructions and precautions for averting accidents precedes most shop activities. Therefore, the tardy or absent student places himself and others at risk by not being present at this critical time.

Attendance (3 absences permitted) and timeliness (3 tardys equal one absence) are considered essential to employers and the safe conduct of a business. A student exceeding the rule of 3/3 may be dropped from class for reasons of safety. Class begins each day at 7:30 AM. Be prepared for work at 7:25.

Acknowledged and signed by:	, date
atnd-gra.pol rev 8-14-95	

Mr. Jewell

Study Schedule

Automotive Electrical

Lecture	Wk.	* Subject	Chapt./Text		CAC p
Aug. 13-14		Teachers Duty Day			
17-21	01	First class meeting and	lecture		
24-28	02	Battery & Testing	7c, 3s		p.02
31-04	03	Basic Elec. Meas.	28		21,26
Sept 07-11	04	Basic Electricity	1c		18,13
14-18	05	Ohm's Law	1c *	144	06,07
21-25	06	Measurement	2s		21,26
28-02	07	Circuits & Symbols	6c		10,16
Oct. 05-09	08	Wiring & Fasteners	5c, 1s,		p.11
12-16	09	Magnetism	2c		p.14
19-23	10	Starter Systems	10c,11c 6s,7s		
26-30*	11	Engine Ignition Sys.	12c, 8s, 9s,		p.40
Nov. 02-06	12	Ign. Pri. & Sec. Cir.	13,14c 8,9s		p.62
09-13*	13	Distributer Service	10s		p.89
16-20	14	Timing & Advance Tests	15c, 10s,11s		79,87
23-25	15	Oscilloscope Testing	2s,8s,9s,	н.о.	p.96
30-04	16	Basic Electronics	3c		18,19
Dec. 07-09	17	Electronic Ignition	16c, 10s,11s		p.71
10-11		Test & Shop Clean up			
14-18	18	Final Exams	Scantrons & Pe	ncils	

Please Note: A Quiz may be given on the day that any of the above assignments are scheduled or any day there after. You should always be prepared with Scantron cards and at least 2, sharpened, #2 pencils inin your pocket. Scantron penalties may result, with no credit given, for poorly erased scantron selections. Answers to questions provided by the authors may be incorrect, and if used, will be graded as incorrect responses. Further: Additional assignments may be required as handouts or outside assignments. i.e. notebooks, employment app's, interviews.

Quizes may be given Monday, Wednesday, or Friday or any day in shop.

Tests and exams are given at the beginning, mid term, and end of the semester. Required Texts: Automotive Electrical & Electronic Sys. by Check Chart, "c" = classroom text, "s" = shop text. Recommended Texts: Guide to the Mechanics Certification by James Hughes, Clean Air Car Course by State of California, "CAC".

OFFICE HOURS 7:05-7:30 AM daily. Room AT6.

Please see "Attendance and Grading Policy".

Rev. August 17, 1998

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KRCC AUTO DEPT. RULES

Please read and <u>place your initials</u> in the box [] to the right of each of each rule. If, for any reason that you do not understand any of the rules, please contact your instructor and ask for assistance.

HONESTY AND INTEGRITY Every student is expected and required to: A. Perform his/her own assignments in the classroom, shop, and homework without duplication or replication of another person's work.

- B. Perform individually on tests, quizzes, exams, and other instruments of individual evaluation. The use of crib notes or looking at other students papers is regarded as cheating and the student(s) involved will be ejected from class.
- C. Tests, quizzes, are the property of each instructor and must be returned to the instructor at the end of each evaluation. [] D. Time cards will be used for evaluating student responsibility and to provide attendance data for institution funding. Falsifying a time card is regarded as cheating and the student(s) involved will be ejected from class.
- E. Thou shalt not steal or tolerate those who do. All missing items, both private and school, will be immediately reported to the police dept. for investigation.

ATTENDANCE AND TIMELINESS Three days of absence from class is the maximum allowable per semester.

Tardiness, whether late arrival to school or in returning from a class break will be treated as an absence. Three tardys equate to one day of absence. Safety is our primary consideration.

Leaving class early or not returning from a class break without permission of the instructor will be regarded as a day of absence.

A student will be counted as absent if for any reason he/she is asked to leave class for reasons of inappropriate behavior. []

VEHICLES AT THE SHOP <u>All vehicles</u> at the shop are considered available for instructional work and are therefore under the control and responsibility of the instructor. Upon entering the shop area the owner/operator of said vehicle agrees to grant unconditional access to all compartments and components of the vehicle to the instructor.

Vehicles will not be leaned or sat on, used as a foot rest, or sat in. Audio and mirror adjustments will not be altered. []

The security of the vehicle and special components thereof remain the responsibility of the vehicle owner/operator.

No vehicle may enter or be removed from the shop area without the specific permission of the instructor responsible for the instructional activity. No exceptions for lunch break.

Vehicles or parts thereof left at the shop beyond the first day of semester final exams will be considered abandoned, and the owner will be dunned for storage, and costs of disposition.

Unauthorized vehicles parked at the shop without a permit issued by an instructor will be ticketed by the campus police and towed at owner/operator expense. []

All students must provide their Drivers License Number and license status to the instructor prior to operating any vehicle. FACILITY USE AND ACCESS No vehicle or component repair or bench work may be performed within the shop area without specific permission of and the immediate supervision of an instructor or lab technician (Mr. Aguirre) Shop equipment or tools may not be operated or used without specific permission and the immediate supervision of an instructor or lab technician (Mr. Aguirre). No tools will be loaned [Tools and supplies loaned to students must be resupplied with the exact quantity and part # prior to the end of the semester. Grades and transcripts will be frozen until replacement completed. Students will not be allowed in the shop area during break or lunch period. PROPER ATTIRE Because the objective purpose of the training program is to gain and keep employment as a professional automotive technician, standards of appropriate dress are required. Uniforms must be worn correctly at all times in the shop, and laundry service must be paid by the 3rd week of the semester. Closed toe shoes are required at all times in the shop area. [Hair longer than collar length must be contained within a brimless hat when working in the shop area. Baseball hats OK. Hats of any type will not be worn within the classroom. SAFETY AND CONDUCT Conduct by all students at all times must reflect attitudes of safety and considerate behavior toward all personnel and the professional objectives of the program. [] Safety glasses must be worn at all times in the shop area. 1 Horseplay in any form will not be tolerated. Persons suspected of the influence of alcohol or a controlled substance will be asked to leave the class and reported to Health and Security Services. GENERAL CONDUCT Tobacco products use and sunflower seeds are not permitted within the facility, parking area, or front garden area. Spitting on any facility area or fountain is not permitted. [Persons lacking proper toilet habits will be referred to Student Health Services for remedial training. Food and beverages will not be permitted in the shop area.] Telephones may be used by permission only. 1 The teacher's desk and tool chest contains confidential personal materials and is "OFF LIMITS" to all students. _(signature), (DMV#). have read and understood the above rules of conduct of the RC Auto Tech. Dept. date rules rev. August 17, 1998