# University of New Mexico Gallup Campus



## Collision Repair Technology Program Review

Prepared by:

Lorretta Notah Administrative Asst.

February 2018

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#### **COLLISION REPAIR PROGRAM REVIEW**

#### **Document 1**

• Self-Evaluation Report from Department/Program Chair under review.

The Collision Repair Program is in reality two programs combined into one. It has the Center of Career and Technical Education (CCTE) component to it which are juniors and seniors from the local high schools that are transported to UNM-Gallup during the school year. The instruction is Monday through Friday from 9:00 AM to 11:15 AM. The credits earned in this program can be applied to a Certificate or Associate of Applied Science (AAS) degree in this field. The other part of this program is the college program, where classes are held in the afternoon and evening. This is a popular program and classes usually fill up without having to recruit.

Through a search for other Collision Repair certificate and degree training program in this region, one was located in Las Vegas, NM, approximately an hour and 40 minutes or 258.17 miles. Other Collision Repair schools are found in Phoenix, Arizona or Denver Colorado. There are none that could be located in the Santa Fe/Albuquerque metropolitan areas. This program is responsible for training Collision Repair Technicians for a broad geographical range that encompasses major metropolitan areas.

The UNM-G program is currently operated solely by one full-time faculty member who generally carries a one or two credit overload. The faculty member Floyd (Cliff) Burnham often works with the community and has fixed and painted city vehicles including police cruisers and has done this work with other non-profit organizations. Of course, the work is done by students in the program at no charge other than for materials. The program has what is considered the "best paint booth" in the region. This booth is quite complicated with gas burners for drying, a ventilation system, and safety alarm doors. The booth has filters for the ventilation system through the interior along with gauges that monitor air quality.

Curriculum used in this program has been through Inter-Industry Conference on Auto Collision Repair (I-CAR), which is a part of the National Automotive Technicians Education Foundation/ Automotive Service Excellence (NATEF/ASE). This semester as in prior semesters the program has also continue to insert CENGAGE curriculum which has an online component that is interactive and delivers the latest and best practices in this industry. The three year projection of this program is to include "Green Curriculum" which in this case will be water based paint. The paint booth will need to be retrofitted to enable both water base and oil base painting. This of course will be at a cost and through Perkins Grant funding we are hoping to get this accomplished.

Students often enroll in this program only to gain enough skills to take their I-CAR (Inter-Industry Conference on Auto Collision Repair) certification tests. We must considered the value of offering the certificate and/or degree as a Career Pathway. It may be wiser to pursue a path that assures these students remain long enough to complete at least their UNM-Gallup Certificate in Collision Repair. This is an important issue especially with the current budget process based on assessment that could affect a program and a division allowing for the students to obtain their I-CAR certification and keeping them long enough to obtain their UNM-Gallup Certificate of Completion is one goal of this program going forward.

Currently, there is no tracking method in place to determine where students leaving this program are currently employed. There will be a tracking method developed by the full time instructor, which will help obtain employment opportunities in the Gallup area. Local dealers were contacted and efforts will be underway to get students to work under the Cooperative Education/Internship Program.

Operating Ledger Summary Through the Month of Feb 2018

Inge 722001 - Collision Repair

Account Description	Budget (FYTD) Adopted	Budget (FYTD) Adjustments	Budget (FYTD) Accumulated	Actuals Current Month	Actuals Pct	Actuals Fiscal YTD	Actuals Pct	Encumbrances	Balance Available	Balance Pct
Revett.		1								
The Allocations Pooled Allocation	\$27,070.00	\$.00	\$27,070.00	\$.00	%00.	\$27,070.00	100.00%	<b>\$</b> :00	\$.00	%00:
1991 Allocations Other Gen	\$.00	\$133.00	\$133.00	00'\$	%00.	\$133.00	100,00%	\$.00	88	%00
1990 Reserves	\$:00	\$.00	\$:00	<b>8</b> :00	%00°	(\$10,930.13)	%00°	9:00 •	\$10,930,13	%00.
1904 Change in Reserves	\$.00	\$.00	\$.00	\$:00	%00"	\$10,930.13	<b>%00</b>	<b>\$</b>	(\$10,930,13)	%00°
TOTARevenue										
	\$27,070.00	\$133.00	\$27,203.00	\$.00	%00"	\$27,203.00	100.00%	\$.00	\$.00	%00'
Expegs										
2001 Faculty Salary Detail Gen	\$19,067.00	\$133.00	\$19,200.00	\$.00	%00.	\$11,520.00	60.00%	\$7,680.00	\$.00	%00.
319t Office Supplies General	\$100.00	\$.00	\$100.00	\$.00	%00`	\$,00	%00.	2,00	\$100.00	400.00%
31gt Tools <\$5,001	\$1,000.00	<b>8</b> .00	\$1,000.00	\$.00	%00.	\$336.92	33.69%	90°\$	\$663.08	66.31%
310 Business Food - Local	\$100.00	\$.00	\$100.00	\$.00	%00	\$125.98	125.98%	\$.00	(\$25.98)	(25,98%)
318 Freight In-Bound	\$,00	\$.00 \$	\$:00	<b>8</b> :00	%00°	\$255.99	%00.	<b>8</b> :00	(\$255.99)	%00.
31b. Individual Safety Equipment	\$300.00	\$.00	\$300.00	\$.00	%00`	\$563.88	197.96%	\$.00	(\$293,88)	(%96'26)
31P - Instructional Materials & Sul	\$3,704.00	\$.00	\$3,704.00	8.90 \$	%00°.	\$3,457.14	93.34%	90. <b>\$</b>	\$246.86	8.86%
374 Other Supply Costs Gen	\$1,200.00	\$.00	\$1,200.00	\$23.83	1.99%	\$96.32	7.94%	\$.00	\$1,104.68	92,06%
60% Long Distance Gen	\$20.00	\$.00	\$20.00	<b>\$</b> :00	%00·	\$:00	%00.	\$:00	\$20.00	100.00%
63&L Technical Services Gen	\$1,500.00	\$.00	\$1,500.00	\$,00	%00°	\$601.33	40,09%	\$.00	2898.67	59.91%
80Ķ'. Banner Tax	\$79.00	\$.00	\$79.00	\$.00	%00.	\$54.43	68.90%	\$.00	\$24.57	31.10%
TOTA Expense										
	\$27,070.00	\$133.00	\$27,203.00	\$23.83	%80.	\$17,040.89	62.64%	\$7,880.00	\$2,482.01	9.12%

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Index: 722001 - Collision Repair

Account Description	Budget (FYTD) Adopted	Budget (FYTD) Adjustments	Budget (FYTD) Accumulated	Actuals Current Month	Actuals Pct	Actuals Fiscal YTD	Actuals Pct	Encumbrances	Balance Available	Balance Pct
Total Revenue: Total Expense:	\$27,070.00 \$27,070.00	\$133.00 \$133.00	\$27,203.00 \$27,203.00	\$.00 \$23.83	%60°.	\$27,203.00 \$17,040.99	100.00% 62.64%	\$.00 \$7,680.00	\$.00 \$2,482.01	.00%
Net	\$:00	\$.00	\$.00	(\$23.83)	%00.	\$10,162.01	%00°	(\$7,680.00)	\$2,482.01	%00°

Parameters: Index: 722001 - Collision Repair

Groupings:

Waming: These reports will show fiscal year activity. For inception to date activity for Grants please use the FRRGLDS - Grant Ledger Detail Summary report.

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Operating Ledger Summary Through the Month of Feb 2018

Index: 714023 - CCTE Collision Repair Tech - Gailup

FOROLDS

「	Adopted	Budget (FT1D) Adjustments	Budget (FYTD) Accumulated	Actuals Current Month	Actuals Pct	Actuals Fiscal YTD	Actuals Pct	Encumbrances	Balance Available	Balance Pct
Revenue										
1640 - Allocations Pooled Allocatiol	\$42,361,00	\$.00	\$42,361.00	\$.00	%00.	\$42,361.00	100.00%	\$.00	\$.00	%00:
1660 - Allocations Other Gen	\$.00	(\$695,00)	(\$695.00)	\$.00	<b>%00</b> .	(\$695.00)	100,00%	\$.00	\$.00	%00°
1900 - Reserves	\$:00	\$.00	\$.00	<b>9.00</b>	%00:	(\$1,436.86)	%00.	\$:00 \$	\$1,436.86	<b>%00</b> .
1903 - Change in Reserves	\$.00	\$.00	\$.00	\$:00	%00"	\$1,436.86	%00°	2:00	(\$1,436.86)	%00°
TOTAL Revenue	\$42,361.00	(\$695.00)	\$41,666.00	\$.00	<b>%00</b> °	\$41,666.00	100.00%	<b>₩</b>	\$.00	%00'
xpense										
2000 - Faculty Salary Detail Gen	\$28,600.00	<b>8</b> .00	\$28,600,00	90: <del>\$</del>	%O.	\$17,280.00	60.42%	\$11,520.00	(\$200.00)	(.70%)
2110 - Fica Gen	\$1,854.00	\$.00	\$1,854.00	\$,00	%00`	\$1,229.37	66.31%	<b>200</b>	\$624.63	33,69%
2140 - Retirement Gen	\$3,734,00	\$.00	\$3,734.00	\$.00	%00°	\$2,401.92	64.33%	<b>9:</b> 00	\$1,332.08	35.67%
2160 - Group Insurance Gen	\$2,200.00	\$.00	\$2,200.00	\$.00	%00.	\$1,701.63	77.35%	\$,00	\$498.37	22.65%
2188 - Unemployment Compensatil	\$20.00	\$.00	\$20.00	\$.00	%00.	\$11.74	58.70%	\$.00	\$8.26	41.30%
21AD - Workers Compensation Gen	\$27.00	00'\$	\$27.00	\$.00	<b>%00</b>	\$12.82	47.48%	200	\$14.18	52.52%
21J0 - Other Staff Benefits Gen	\$1,101.00	\$.00	\$1,101.00	\$.00	%00°.	\$687.66	62.46%	<b>8</b> .00	\$413.34	37.54%
3180 - Non Capital Equipment <\$5,[	\$400.00	\$.00	\$400.00	\$.00	<b>%00</b> ′	\$.00	%00′	\$.00	\$400.00	100.00%
3182 - Tools <\$5,001	\$400,00	\$.00	\$400.00	\$.00	%00.	\$.00	%00.	<b>\$</b> :00	\$400.00	100.00%
31ND - Uniforms Apparel Gen	\$695.00	(\$695.00)	\$.00	\$.00	%00"	\$.00	%00:	2.00	\$.00	<b>%00</b> .
31N2 - Individual Safety Equipment	\$700.00	\$.00	\$700.00	\$.00	%00.	<b>\$</b> :00	%00.	\$.00	\$700.00	100.00%
31P1 - Instructional Materials & Sul	\$.00	\$.00	\$.00	\$.00	%00`	\$587.88	%00°	\$.00	(\$587.88)	%00°
37Z0 - Other Supply Costs Gen	\$2,582.00	<del>8</del> .00	\$2,582.00	\$.00	%00.	\$47.66	1.85%	\$.00	\$2,534.34	98.15%
63X0 - Technical Services Gen	\$.00	\$.00	\$.00	\$.00	%00°	\$619,19	%00°	8.00	(\$619.19)	<b>%00</b> *
80KD - Banner Tax	\$48.00	\$.00	\$48.00	\$.00	%00.	\$12.55	28.15%	\$.00	\$35.45	73.85%
TOTAL Expense										
	\$42,361.00	(\$695.00)	\$41,666.00	\$.00	<b>%00'</b>	\$24,592,42	59.02%	\$11,520.00	\$5,553,58	13,33%

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Operating Ledger Summary Through the Month of Feb 2018

Index: 714023 - CCTE Collision Repair Tech - Gallup

Account Description	Budget (FYTD) Adopted	Budget (FYTD) Adjustments	Budget (FYTD) Accumulated	Actuals Current Month	Actuals Pct	Actuals Fiscal YTD	Actuals Pct	Encumbrances	Balance Available	Balance Pct
Total Revenue: Total Expense:	\$42,361.00 \$42,361.00	(\$695.00) (\$695.00)	\$41,666.00 \$41,666.00	\$.00	%00°.	\$41,666.00 \$24,582.42	100.00%	\$.00	\$.00 \$5,553.58	.00%
Net:	\$.00	\$.00	\$:00	\$.00	%00.	\$17,073.58	.00%	(\$11,520.00)	\$5,553.58	%00.

Parameters: Index: 714023 - CCTE Collision Repair Tech - Gallup

Groupings:

Waming: These reports will show facal year activity. For inception to date activity for Grants please use the FRRGLDS - Grant Ledger Detail Summary report.

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Thed Grant D. 10 Original Address NW		IN \$3.608.00 \$3.608.00	IN \$1.498.00 \$1.498.00	BLD GH IN \$1.052.00 \$1.052.00	IN \$1120.00	IN \$4,511.00 \$4,511.00	LD GH 1N \$3.410.00 \$3.410.00	IN \$20,500.00 \$20,500.00	00.002(3E) 00.000 (3E) NI	00 51 099 00 S1 099 00	IN \$75.511.00 \$82.048.09	IN \$1.142.00 \$1.142.00	IN \$1 568 00 \$1 568 00	concert consists and
Room - Memo		Г			Τ	Г	Τ		Г		Г			T
Blage Ro	G0002 1322	G0002 1324	G0002 1322	1		G0451 138		1	1	G0002 1321	G0002 1322	10	1	т
Condition Code (Mette: to new Condition Code Condition	Good-Usabi	Fair-Repai	Good-Usabi	Good-Usabi	Good-Usabi	0005	Good-Usabi	Good-Usabi	Good-Usabl	Good-Usabl	Good-Usabl	Good-Usabl	Good-Usabl	Good-Usabl
5	KA910683	710-468-100078	5048A	Wilray	YELLOW	U-90294	KD365985	GS03447	WR4KL3365		. 6840	LC634883	LC707249	LE205353
Model	MILLERMATICSS	569 LAMP	366SPOT	784110	248360	9000	SHOPMASTER300	WS100A	4000L FRAME	PAINT GUN	GARMAT 3000	Econo Tig	Syncrowave	251
	Miller	CollisonSvc	UNKNOWN/OTHER	Global	Wilray	Globe	Miller	Genesis	Kansasjack	Hercules	UNKNOWN	FourComer	FourCorner	Miller
Add Dark	WELDER	PAINT CURING SYSTEM	WELDER	8/24/1999 CABINET SAFETY	3/27/1995 CABINET SAFETY	UFT	WELDER	7/16/1995 MEASURING SYSTEM	RACK	12/2/1998 WASHER EQUIPMENT	3/21/2003 SPRAY BOOTH	4/29/2004 WELDING SYSTEM	4/29/2004 WELDING SYSTEM	MIG Welder
#	8/11/1992	3/27/1995	8/24/1999 WELDER	/24/1999	(27/1995	8/24/1999 LIFT	8/24/1999 WELDER	/16/1995	6/17/1998 RACK	2/2/1998	(21/2003	/29/2004	/29/2004	9/16/2004 MIG Welder
*			യി	001	m	00	∞,	-	9	-1	m)	4	4	õ



### COLLISION REPAIR TECHNOLOGY (CRT)

101 Basic Auto Body (4)

History of Auto Body, auto body materials, parts of an automobile, hand and power tools, methods of strengthening, sheet metal, using fillers for panel repair.

103 Paint & Refinishing Equipment (4)

Detailed study of the uses and properties of paint and refinish equipment, used in the trade for undercoats and topcoats.

105 Auto Welding (4)

Identify the three classes of welding. Explain how to use a MIG welding machine. Identify. Oxyacetylene welding equipment and techniques. Explain general brazing and soldering techniques used in a body shop. Explain plasma cutting techniques.

106 Restoring Corrosion Protection (4)

Define corrosion and describe the common factors involved in using various materials to protect steel body parts from rusting.

107 Auto Glass/Restraint Systems (4)

Auto glass replacement and restraint systems, restraint system repairs, windshield, door glass, back glass, replacement, operation of air bag system, operation of seat belt, and child safety seat.

110 Repairing Plastic (4)

Theory and design of plastics, their uses and the repair of plastic in the auto field.

115 Advanced Painting (4)

Identify and explain the differences between the two major types of plastic used in automobiles. Identify unknown plastics. Repair minor cuts and cracks in plastics by means of a chemical bonding process. Explain the keys to good plastics welding. Explain the safety precautions used when working with fiberglass.

120 Identification and Analysis of Damage (4)

Teaches theory, diagnosis, basic sheet metal work, steering-suspension, and the difference between perimeter and unibody construction.

121 Replacement of Structural Components (3)

Involves cutting, measuring, and welding a new body panel in place of a badly damaged one. Identify oxyacetylene welding equipment and techniques.

122 Straightening & Measuring Systems I- Non-Structural

Analysis and Damage Repair (4)

Measuring principles and techniques is the study of modern measuring concepts and use of reference manual.

124 Straightening & Measuring Systems II-Structural Analysis and Damage Repair (4)

Detailed study of anchoring, pulling equipment, pulling concepts, and stress relieving in body repair.

210 Custom Painting (4)

Modern graphics, frames, design, and pin-striping. New paint systems and spray equipment.

211 Restoration (4)

Restore car and truck to original shape. Leading rust repair panel, replacement of weather strips.



Name of Department Semester	Applied Technology - Collision Repair Fall 2016
Instructor Name Office Location Office Hours E-mail Telephone Class Meeting Days/Times Location	Floyd C. Burnham Gurley Hall 1322B 7:00 am - 9:00 am and 12:45 pm - 3:00 pm cburnham77@yahoo.com Office: (505) 863-7530 Monday thru Friday 9:00 am - 11:15 am Gurley Hall 1317
	Syllabus
Title of Course:	Basic Auto Body
Course Number	CRT 101
Course Description	History of Auto Body, auto body materials, parts of an automobile, hand and power tools, methods of strengthening, sheet metal, using filler for panel repair.
Credit Hours and Contact Hours	4 Credit Hours
Pre-requisites/co-requisites	None
Learning Objectives and Outcomes	<ol> <li>(upon successful completion of this course the student will)</li> <li>Describe what happens to a vehicle during a collision</li> <li>Summarize the basic steps needed to repair a vehicle damaged in an accident</li> <li>Explain the major work areas of a typical collision repair facility</li> <li>Summarize the work flow though a shop</li> <li>Describe the types of positions or jobs available in the collision repair industry</li> <li>Identify the setup and inner working of a typical shop</li> <li>Answer American Service Excellence (ASE)- style review question</li> <li>Understand fundamental terms used in the collision repair industry</li> </ol>
	Course Content, Scope and Outcome Classroom quizzes and tests. Math problems along with critical thinking and essay questions.  1. Body shop 2. Damage Estimating 3. Metalworking areas 4. Vehicle measurement and straightening 5. Panel replacement and straightening 6. Plastic repair 7. Hand and Power tool 8. Personal and shop safety

#### Disabilities Policy:

In keeping with University of New Mexico policy (University Business Policies and Procedures Manual: "Policy 2310: Academic Adjustments for Students with Disabilities") and defined sections: Section 504 of the Rehabilitation Act of 1973, Section 508: The Rehabilitation Act Amendments of 1998, ADA: The Americans with Disabilities Act of 1990, and the ADAA: The American with Disabilities Act Amendments of 2008 - of providing equal access to individuals with disabilities, instructors are strongly encouraged to include a statement on their syllabus informing students that academic accommodations can be provided on the basis of disability if the student follows the protocol described. The following statement contains all of the elements that should be present. Instructors may want to make changes based on style preference or particular course content. It is strongly recommended that you also read this statement to the students at the start of each semester when reviewing course policies. Please include the Notice of Non Discrimination at the bottom, as it is a required addition to this document.

"In keeping with the university's policy of providing equal access for students with disabilities, any student with a disability who needs academic accommodations is welcome to meet with instructor privately. All conversations will be kept confidential between student and instructor. Students requesting any accommodations will also need to contact:

STUDENT SERVICES - CAREER &ACCESSIBILITY RESOURCE CENTER (ARC)

#### By Appointment:

Mary Lou Mraz, MSEd, LMSW UNM Student Success Specialist Phone: (505) 863-7527

Location: Gurley Hall 2205 B Email: mloumraz@unm.edu To contact office:

Wilma Lee, Administrative Assistant Phone: (505) 863-7757 Front Desk

Location: Gurley Hall 2205

ARC will conduct an intake and, if appropriate, will provide an approved academic accommodation notification that will be sent to you. At that point, you may contact me to review the letter and discuss these accommodations in relation to your course.

Early intervention can make all the difference in helping students achieve academic success. It also shows that the instructor made a good faith effort to inform students of their rights and responsibilities in this area, and that this effort was done in a timely manner.

Notice of Non-Discrimination: The University of New Mexico-Gallup, as an equal opportunity/affirmative action employer and educator, complies with all applicable federal and state laws regarding nondiscrimination and affirmative action. The University of New Mexico-Gallup is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race/ethnicity, color, national origin, age, spousal affiliation, sex, sexual orientation, gender identity, medical condition, disability, religion, pregnancy, genetic information, or veteran status in employment, educational programs and activities, and admissions, and provides equal access to the Boys Scouts and other designated youth groups. Inquiries or complaints may be addressed to the Office of Equal Opportunity whose Director serves as the 504/ADA Coordinator and Title IX Coordinator on UNM Main Campus: (505) 277-5251. For referrals to main campus see: UNM Gallup Title IX Coordinator, Director of Student Affairs, SSTC Room 278, Telephone: (505) 863-7508. For Referrals to main campus regarding Section 504 compliance; Student Success Specialist, Gurley Hall Room 2205B, Telephone: (505) 863-7527.

#### **Course Outline**

Teaching Methods (Lecture, Labs, Small Groups, On-Line Components)
May include:

- 1. Lecture with, or without, various visual aids
- 2. Group problem solving, discussion, debate, and/or critique
- 3. Demonstration in shop and classroom
- 4. Computer assisted instruction
- Hands-on shop work

#### **Evaluation/Grading Methods**

A student's grade will be based on multiple measures of performance, and will reflect the level of accomplishment of the objectives set forth above as well as the level of understanding of the topics enumerated under "Content and Scope." A final grade of "C" or better will indicate that the student has the ability to successfully apply the principles taught in this course to subsequent courses, to the work-place, or the personal goals as appropriate. The assessment process will also measure independent critical thinking skills and will reflect the student's ability to demonstrate their accomplishments by:

- 1. Performing on written or oral examinations
- 2. Performing on work assignments
- 3. Contributing to class discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Complete repairs in allocated period of time

#### **Grading Scale**

100-97 =A+ 96-93 =A	Mid Term & Final - 30%
90-92 =A- 89-87 =B+	Hand on Diagnosis & Repair - 40%
86-83 =B 82-80 =B-	Written Assignments – 20%
79-77 =C+ 76-73 =C	Shop Mainténance – 10%
72-70 =C- 69-67 =D+	
65-63 =D 62-60 =D-	
Below 60 = F	

#### Required Text(s) & Supporting Materials

Auto Body Repair, Technology 5th Edition

Auto Body Repair Student Technician's Manual 5th Edition

I-CAR CD and Test

Instructor Handouts

Suggested tools: 1/2" Impact Ratchet

#### **Assessment Methods**

- 1. Performance on written and oral examination
- Performance on work assignments.
- 3. Contributing to work discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- 7. Job sheets

#### Attendance Policy and policies on classroom behavior

Each student is expected to attend every class session and be responsible for all assignment. If you are not present when attendance is taken you be considered absent. If you come in late it is your responsibility to bring it to the instructor's attention. If a student cannot be in class due to either illness or a family emergency, call (505) 863-7530 or leave a message at the information desk.

Three (3) tardies equals one absence.

Ten (10) un-excused absences will cause the student to be dropped from class with a failing grade.

#### Classroom Behavior

-No cell phones CD players -Lap-top or electronic devices -Without instructor's permission

-Must follow all rules and procedures.

#### Shop Behavlor

-No shorts, sweatpants or shirts

-Long hair must be tie up or cover up.

-MUST wear safety glasses, steel toe shoes.

-Only blue, black pens or pencils

#### Academic Dishonesty

Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University

Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.

#### Weekly Schedule of Topics, Readings, Assignments, Tests and other Activities

#### August

31 Classroom Orientation and Safety

#### September

Chapter 9 Safety and Efficiency 1-4 Student Technician's Manual Chapter 2 Vehicle Construction Student Technician's Manual

CD/Videos Review Question Shop Assignment 9-1, 9-2; Job 9-1 Review Question Shop Assignment 2-1, 2-2 Job Sheet 2-1, 2-2

Chapter 4 Hand Tools Student Technician's Manual

> Chapter 5 Power Tools Student Technician's Manual

Review Questions Shop Assignment 4-2, 4-4 Job Sheet 4-1, 4-2 Review Questions Shop Assignment 5.1 Job Sheet 5.1

14 Chapter 3 Service Information 3-1 Service Information

Student Technician's Manual

Shop Assignment 3-1; Job Sheet 3-1

3-2 Vehicle identification Student Technician's Manual Shop Assignment 3-2; Job Sheet 3-2 3-3 Using Service Information Student Technician's Manual Shop Assignment 3-3 3-4 Collision Repair Meas Quiz Student Technician's Manual Shop Assignment 3-4. Chapter 10 Estimating Repair Cost 10-1 The Estimate Student Technician's Manual Shop Assignment 10-1; Job Sheet 10-1 10-2 Part Prices Student Technician's Manual Shop Assignment 10-2 10-3 Labor Cost 10-4 Refinishing Time 10-5 Estimate Total 15-18 Shop Projects Chapter 11 Working Sheet Metal 21 11-1 Automotive Sheet Metal Student Technician's Manual Shop Assignment 11-1; Job Sheet 11-1 11-2 Classifying Body Damage Job Sheet 11-2 11-3 Analyzing Sheet Metal Damage Job Sheet 11-3 11-4 Metal Straightening Techniques 11-5 Metal Shrinking Stress Relieving 11-6 Working Aluminum Panels 11-7 Paintless Dent Removal Chapter 12 Using Body Fillers 12-1 Body Filler Student Technician's Manual Shop Assignment 12-1; Job Sheet 12-1 12-2 Applying Body Filler 12-3 Grating and Sanding Body Filler 12.4 Repairing Paint Surface Imperfection 12-5 Repair Rust Damage 22-25 Shop Projects 28 **Final Test** 29-30 Shop Projects

#### October

1-2 Shop Projects 5-9 Shop Projects

15-16 FALL BREAK - No Classes, Offices Open

# TUNM GALLUP

Applied Technology – Collision Repair Fall 2016
Floyd C. Burnham Gurley Hall 1322B 7:00 am - 9:00 am and 12:45 pm - 3:00 pm cburnham77@yahoo.com Office: (505) 863-7530 Monday - Friday 9:00 am-11:15 am Gurley Hall 1317
Syllabus
Paint and Refinishing Equipment
CRT 103
Detailed study of the uses and properties of paint and refinish equipment, used in the trade for undercoats and topcoats.
4 Credit Hours / 80 Contact Hours
None
<ol> <li>(upon successful completion of this course the student will)</li> <li>Determine the type of paint on a car and whether on not the car has been repainted.</li> <li>Match color and texture by tinting.</li> <li>Identify the steps in applying various types of color coats.</li> <li>Apply base-coat/clear-coat systems.</li> <li>Recognize and correct defects occurring in plastic paint finish.</li> <li>Describe the paint finishing systems applicable to plastic parts.</li> <li>Recognize custom painting and refinishing techniques</li> <li>Apply decals, pin striping, and wood grain transfers</li> <li>Explain the importance of final touch-up and cleaning to the satisfaction of the customer</li> <li>Basic bodywork and mental work</li> <li>Refinishing work (masking and detailing)</li> <li>Attendance is part of your grade</li> <li>Course content, Scope: and Outcome</li> <li>Classroom quizzes and tests. Math problems along with critical thinking and essay questions.</li> </ol>

- 3. Determining if the auto has been painted
- 4. Determining type of pain on vehicle
- 5. Selecting solvents (reducers and thinners)
- 6. Repainting spray methods

#### Disabilities Policy:

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STUDENT SERVICES - CAREER & ACCESSIBILITY RESOURCE CENTER (ARC)

#### By Appointment:

Mary Lou Mraz, MSEd, LMSW UNM Student Success Specialist Phone: (505) 863-7527

Location: Gurley Hall 2205 B Email: mloumraz@unm.edu

#### To contact office:

Wilma Lee, Administrative
Assistant
Phone: (505) 863-7757
Front Desk

Location: Gurley Hall 2205

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and provides equal access to the Boys Scouts and other designated youth groups. Inquiries or complaints may be addressed to the Office of Equal Opportunity whose Director serves as the 504/ADA Coordinator and Title IX Coordinator on UNM Main Campus: (505) 277-5251. For referrals to main campus see: UNM Gallup Title IX Coordinator, Director of Student Affairs, SSTC Room 276, Telephone; (505) 863-7508. For Referrals to main campus regarding Section 504 compliance; Student Success Specialist, Gurley Hall Room 2205B; Telephone; (505) 863-7527.

#### Course Outline

## Teaching Methods (Lecture, Labs, Small Groups, On-Line Components) May include

- 1. Lecture with, or without, various visual aids
- Group problem solving, discussion, debate, and/or critique.
- 3. Demonstration in shop and classroom
- 4. Computer assisted instruction
- Hands-on shop work

#### Evaluation/Grading Methods (Attach Rubric if available)

A student's grade will be based on multiple measures of performance, and will reflect the level of accomplishment of the objectives set forth above as well as the level of understanding of the topics enumerated under "Content and Scope." A final grade of "C" or better will indicate that the student has the ability to successfully apply the principles taught in this course to subsequent courses, to the work-place, or the personal goals as appropriate. The assessment process will also measure independent critical thinking skills and will reflect the student's ability to demonstrate their accomplishments by:

- 1. Performing on written or oral examinations
- 2. Performing on work assignments
- 3. Contributing to class discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Complete repairs in allocated period of time

#### Grading Scale

100-97 =A+ 96-93 =A	Mid Term & Final – 30%
90-92 =A- 89-87 =B+	Hand on Diagnosis & Repair - 40
86-83 =B 82-80 =B-	Written Assignments – 20%
79-77 =C+ 76-73 =C	Shop Maintenance - 10%
72-70 =C- 69-67 =D+	
65-63 =D 62-60 =D-	
Below 60 = F	

#### Required Text(s) & Supporting Materials

Auto Body Repair, Technology 5th Edition

Auto Body Repair Student Technician's Manual 5th Edition

I-CAR CD and Test

Instructor Handouts

Suggested tools: 1/2" Impact Ratchet

### Assessment Methods (How learning objectives will be measured; attach rubric if appropriate)

- 1. Performance on written and oral examination
- 2. Performance on work assignments
- 3. Contributing to work discussion and clean-up

- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- Job sheets

Attendance Policy and policies on classroom behavior (use of cell phones, academic dishonesty, lap-top use, etc.)

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Three (3) tardies equals one absence.

Ten (10) un-excused absences will cause the student to be dropped from class with a failing grade.

#### Classroom Behavior

-No cell phones CD players
-Lap-top or electronic devices
-Without instructor's permission
-Must follow all rules and procedures.

#### Shop Behavior

-No shorts, sweatpants or shirts
-Long hair must be tie up or cover up.
-MUST wear safety glasses, steel toe shoes.
-Only blue, black pens of pencils.

#### Academic Dishonesty

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#### Weekly Schedule of Topics, Readings, Assignments, Tests and other Activities

#### October

12-16 Classroom - Orientation and Safety
Chapter 9 Safety and Efficiency
Student Technician's Manual
Chapter 2 Vehicle Construction
Student Technician's Manual

CD/Videos Review Question Shop Assignment 9-1, 9-2; Job 9-1 Review Question Shop Assignment 2-1, 2-2 Job Sheet 2-1, 2-2

19-23 Classroom - Chapter 4 Hand Tool Chapter 5 Power Tools Student Technician's Manual Review Questions
Review Questions
Shop Assignment 4-1, 4-2, 5-1
Job Sheets 4-1, 4-2, 5-1

26 Classroom - Chapter 24 Refinishing Equipment Technology

24-1 Spray Guns

24-2 Equipment and Material Preparation

24-3 Spray Gun Setup

24-4 Using a Spray Gun

24-5 Spray Maintenance

24-6 Spray Gun Troubleshooting Review Question

#### Student Technician's Manual

Shop Assignment: 24-1 Paint Gun Parts Identification,

24.2 Paint Gun Use

Job Sheet: 24.1 Refinishing Equipment Setup; 24.2 Paint Gun Cleaning and Setup

#### 27-30 Shop Projects

#### November

02 Classroom - Chapter 24 Refinishing Equipment Technology

24.7 Other Spray System

24.8 Spray Booth

24.9 Spray Booth Maintenance

24.10 Drying Room

24.11 Air-Supplied respirators

24.12 Other Paint Shop Equipment

Quiz

#### 03-06 Shop Projects

#### 09 Classroom - Chapter 25

25.1 Evaluate Surface Condition

25.2 Paint Removal

25.3 Preparing Bare Metal

25.4 Prime Coat Selection

25.5 Final Sanding

25.6 Masking

25.7 Surface Cleaning

#### Student Technician's Manual

Shop Assignment

25.1 Using Different Grit of Sandpaper

25.2 Definitions of Materials and Techniques

Job Sheet

25.1 Prepping and Feathering

25.2 Masking

25.3 Surface Scratch Prep

25.4 Editing Panels

#### 10-13 Shop Projects

#### 16 Classroom - Chapter 24 and 25 Review

#### 17-20 Shop Projects

23-27 Shop Projects

25-27 Thanksgiving Holiday - NO CLASSES

30 FINAL EXAM

#### December

01- 04 Shop Projects 07-11 Clean up and Finish Projects



Name of Department	Applied Technology - Collision Repair
Semester	Spring 2015
Instructor Name:	Floyd G. Burnham
Office Location	1322B
Office Hours	7;00 am to 9;00 am
E-mail	Cburnham77@yahoo.com
Telephone	Work/School 863-7530 Cell 879-1675 Home 722-2165
Class Meeting Days/Times	T-R 330-600 PM
Location	GH 1322
	Syllabus
Title of Course:	Auto Welding
Course Number	CRT105
Course Description	Identify the three classes of welding. Explain how to use a MIG welding machine. Identify Oxyacetylene welding equipment and techniques. Explain general brazing and soldering techniques used in a body shop. Explain Plasma cutting techniques.
Credit Hours and Contact Hours	4 credit hours.
Pre-requisites/co-requisites	None
Learning Objectives and Outcomes	(upon successful completion of this course the student will)
	Describe when to use & when not to certain welding processes for collision repair     List safety precautions taken during welding     Name the parts of a MIG welder
自己生物學 经国际管理证券	4. Describe and set up a MIG welder
	<ul> <li>5. Describe differences between MIG electrode wires.</li> <li>6. Determine if a given 115-volt welder is powerful enough for the application</li> <li>7. Explain the variables for making a quality MIG weld</li> </ul>
	8. Describe the various types of MIG welds and joints 9. Explain the resistance spot welding process
	10. Describe Oxyacetylene welding equipment
	11. Set up Oxyacetylene welder using safety checks 12. Explain the differences in welding aluminum as
	compared to steel
	13. Describe plasma arc cutting

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Required Text(s) & Supporting Materials (Many programs will require these to be common across different sections

-Check with Chair

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Student Technician's Manual 5th Edition

Handouts from Instructor

Suggested tools: Impact ratchet, 1/2

Assessment Methods (How learning objectives will be measured; attach rubric if appropriate)

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#### Weekly Schedule of Topics, Readings, Assignments, Tests and other Activities

#### AUGUST

18-20 Classroom Orientation and Safety

Chapter 9 Safety and Efficiency.
Student Technician's Manual

Shop Assignment 9-1, 9-2. Job 9-1. Review Question

Chapter 2 Vehicle Construction Student Technician's Manual

Shop Assignment 2-1, 2-2, Job Sheet 2-1,2-2.

CD/Videos Review Question

25-27 Classroom Chapter 8

Welding Equipment
8.1 MIG Welding

8.2 MIG welding Equipment
8.3 MIG Operation Methods 8.4 Basic Welding Techniques
Student Technician's Manual

Job Sheet Mush be completed by May 10

8-1 MIG Welding

8-2 Oxyacetylene Torch

8-3 Plasma

SEPTEMBER

T TR

01-03 Shop Projects 08-10 Shop Projects 15-17 Shop Projects

22 Classroom Chapter 8

Welding Equipment 8.5 MIG Welding Galvanized Metal and Aluminum 8.6 Testing the MIG weld 8.7 MIG Weld Defects 8.8 Flux-Cored Arc Welding **Shop Projects** 24 29 Shop Projects OCTOBER. T TR 01 Shop Projects 06-08 **Shop Projects** 13 Classroom Chapter 8 Welding Equipment 8.9 TIG Welding 8.10 Resistance Spot Welding 8.11 Other Spot Welding Functions 8.12 Stud Spot Welding for Dent Removal Welding Equipment 8.13 Oxyacetylene Welding 8.14 Brazing 8.15 Soldering (soft Brazing) 8.16 Plasma Arc Cutting 15 **Shop Projects Shop Projects** 20-22 **Shop Projects** 27-29 NOVEMBER T TR 03-05 Shop projects **Shop Projects** 10-12 17-19 **Shop Projects** 24 Shop projects 26 **Thanksgivings** DECEMBER T TR 01-03 Shop Projects 08-10 FINAL EXAM

Note: Syllabus is subject to change by the instructor at any time for exceptional reasons.



Name of Department Semester	Applied Technology – Collision Repair Spring
Instructor Name:	Floyd C, Burnham
Office Location	1322B
Office Hours	7;00 am to 9;00 am
E-mail	Cburnham77@yahoo.com
Telephone	Work/School 863-7530
Class Meeting Days/Times	T-R 6;40 to 9;15 PM
Location	GH 1322
	Syllabus
Title of Course:	Restoring Corrosion Protection
Course Number	CRT106
Course Description	To teach the students the repair and replacement of structural components and define corrosion and describe the common factors involved in using various materials to protect steel body parts from rusting
Credit Hours and Contact Hours	4 credit hours / 80 Contact Hours
Pre-requisites/co-requisites	None
Learning Objectives and Outcomes	(upon successful completion of this course the student will)  1. List parts of the vehicle which are considered structural
	List the steps necessary for replacing a part along factory seams
	3. Describe how spot welds are separated
	4. Explain how new body panels can be positioned on a vehicle body
	5. List the steps for welding new body panels in place
	Describe how to install foam panel fillers     Section rails, rocker panels, A and B pillars, floor pans, and trunk floors
	8. Define corrosion and describe the common factors in rust formation
Disabilities Policy	Identify the principle methods of corrosion protection     Basic body work paint and refinishing

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Handouts from Instructor

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Weekly Schedule of Topics, Readings, Assignments, Tests and other Activities

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15-17 Classroom Orientation and Safety

Chapter 9 Safety and Efficiency CD/Videos Review Question Student Technician's Manual Shop Assignment 9-1, 9-2

Job 9-1.

Chapter 2 Vehicle Construction Review Question

Student Technician's Manual Shop Assignment 2-1, 2-2

Job Sheet 2-1,2-2

22-24 Classroom Chapter 20 Restoring Corrosion Protection

Section 20.1 What is Corrosion?

20.2 Causes for Loss of Factory Protection

20.3 Anticorrosion Materials Quiz

Student Technician's Manual Shop Assignment 20.1 Job Sheets 20.1, 20.2.

29-30 Shop Projects

**FEBURARY** 

05-07 Shop Projects
12-14 Shop Projects
19-21 Shop Projects

26 Classroom Chapter 20 Restoring Corrosion Protection

Section 20.4 Basic Surface Preparation 20.5 Corrosion Treatment Areas 20.6 Corrosion Protection Primes

20.7 Exposed Joints

28 Shop Projects

MARCH

05 07 Shop Projects 12-14 Spring Break 19-21 Shop Projects 26-28 Shop Projects

APRIL

02 Classroom Chapter 20 Resting Corrosion Protection

Section 20.8 Exposed Interior Surfaces

52,531,63	20.9 Exposed Exterior Surfaces	18.
	20.10 Exterior Accessories	
	20.11 Acid Rain Damage	Ľ,
04	Shop Projects	
09-11	Shop Projects	
16-18	Shop Projects	
23-25	Shop Projects	
30-02	Shop Projects	
MAY		1.
07-09	Shop Projects	1
14	Final Test	
16	Make up or Miss Test	

## UNIM GALLUP

Name of Department Semester	Applied Technology – Collision Repair
Instructor Name:	Floyd C. Burnham
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E-mail	Cburnham77@yahoo.com
Telephone	Work/School 863-7530 Home 722-2165
Class Meeting Days/Times	T-R 330-615 PM
Location	GH 1322
	Syllabus
Title of Course	Auto Glass/Restraint Systems
Course Number	CRT 107
Course Description	Auto glass replacement and restraint systems, restraint system repairs, windshield, door glass, back glass, replacement, operation air bag system, operation seat belt, & child safety child.
and the second of the second o	4 credit hours / 80 Credit Hours
Pre-requisites/co-requisites	None
Pre-requisites/co-requisites	and the state of t
Pre-requisites/co-requisites	None (upon successful completion of this course the student will):
Pre-requisites/co-requisites	None (upon successful completion of this course the student will):  1. Describe windshield glass replacement procedures
Pre-requisites/co-requisites	None (upon successful completion of this course the student will):  1. Describe windshield glass replacement procedures 2. Describe how to replace a bumper
Pre-requisites/co-requisites	None (upon successful completion of this course the student will):  1. Describe windshield glass replacement procedures 2. Describe how to replace a bumper 3. Describe how to replace a bumper
Credit Hours and Contact Hours Pre-requisites/co-requisites Learning Objectives and Outcomes	None (upon successful completion of this course the student will):  1. Describe windshield glass replacement procedures 2. Describe how to replace a bumper 3. Describe how to replace a bumper 4. Describe how to replace a bumper
Pre-requisites/co-requisites	None (upon successful completion of this course the student will):  1. Describe windshield glass replacement procedures 2. Describe how to replace a bumper 3. Describe how to replace a bumper

#### Disabilities Policy:

In keeping with University of New Mexico policy (UNIVERSITY BUSINESS POLICIES AND PROCEDURES MANUAL: "Policy 2310: ACADEMIC ADJUSTMENTS FOR STUDENTS WITH DISABILITIES") and defined sections: Section 504 of the Rehabilitation Act of 1973, Section 508: The Rehabilitation Act Amendments of 1998, ADA: The Americans with Disabilities Act of 1990, and the ADAA: The American with Disabilities Act Amendments of 2008 - of providing equal access to individuals with disabilities, instructors are strongly encouraged to include a statement on their syllabus informing students that academic accommodations can be provided on the basis of disability if the student follows the protocol described. The following statement contains all of the elements that should be present. Instructors may want to make changes based on style preference or particular course content. It is strongly recommended that you also read this statement to the students at the start of each semester when reviewing course policies. Please include the Notice of Non Discrimination at the bottom, as it is a required addition to this document.

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By Appointment:

Mary Lou Mraz, MSEd, LMSW UNM Student Success Specialist Phone: (505) 863-7527

Location: Gurley Hall 2205 B Email: mloumraz@unm.edu To contact office:

Wilma Lee, Administrative
Assistant
Phone: (505) 863-7757
Front Desk

Location: Gurley Hall 2205

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#### **Course Outline**

Teaching Methods (Lecture, Labs, Small Groups, On-Line Components) - May include

- 1. Lecture with, or without, various visual aids
- 2. Group problem solving, discussion, debate, and/or critique
- 3. Demonstration in shop and classroom
- 4. Computer assisted instruction
- 5. Hands-on shop work

**Evaluation/Grading Methods** 

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- 1. Performing on written or oral examinations
- 2. Performing on work assignments
- 3. Contributing to class discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Complete repairs in allocated period of time

#### **Grading Scale**

1	100-97 =A+	96-93 =A	Classroom Participation & Attendance - 50%
-	90-92 =A-	89-87 =B+	Mid-Term – 20%
	86-83 =B	82-80 =B-	Final Examination – 30%
	79-77 =C+	76-73 =C	
	72-70 =C-	69-67 =D+	
	65-63 =D	62-60 =D-	
	Polove 60 -		유민 공연 공연 전 등 전 연락 경험을 보고 있다. 요한 그리는 100 대로 모르다.

#### Required Text(s) & Supporting Materials

Auto Body Repair, Technology 5th Edition

I-CAR CD and Test

Student Technician's Manual 5th Edition

Handouts from Instructor

Suggested tools: Impact ratchet, 1/2

#### Assessment Methods

- 1. Performance on written and oral examination
- 2. Performance on work assignments
- 3. Contributing to work discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- 7. Job sheets

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Lap-top or electronic devices
Without instructor's permission
Only blue or black ink pens or pencils

#### Shop Behavior

No shorts sweatpants or shirts
Long hair must be tie up or cover up
MUST wear safety glasses, steel toe shoes
and follow all rules and procedures.

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#### records.

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Weekl	y Schedule of Topics, Readings, Assign	ments, Tests and other Activities
January		
13-15	Classroom Orientation and Safety Chapter 9 Safety and Efficiency Student Technician's Manual	CD/Videos Review Question Shop Assignment 9-1, 9-2. Job 9-1.
20- 22	Shop Projects	
27- 29	Shop Projects	
February		
03- 05	Shop Projects	
10-12	Shop Projects	
17- 19	Shop Projects	
24	Classroom Chapter 15	
	Door, Roof, and Glass Service	15.1 Vehicle Glass Technology 15.2 Glass Sevice 15.3 Servicing Doors 15.6 Door and door Glass Adjustment
		Review Question Quiz
i kari karata ar	Student Technician's Manual	Shop Assignment 15.1 15.2  Job Sheets 15.1 15.2
26	Shop Projects	JUD Silects 10.1 13.2
March	Shop Frojects	
03- 05	Shop Projects	
10-12	Shop Projects	
17- 19	Spring Break	
24- 26	Shop projects	
31	Classroom Chapter 15, 23	
	Door, Roof, and Glass Service	15.7 Door Glass Service
		15,8 Mirror Service
		23.1 Seat Belt System
		Quiz /Test
April		
02	Shop Projects	
07- 09	Shop Projects	
14-16	Shop Projects	
28	Classroom Chapter 23	
	Restraint System Operation an	nd Service
		23.2 Seat Belt Service
		23.3 Air Bag System Operation
		23.4 Serving Air bag System
		Review Question Quiz

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Name of Department Semester	Applied Technology – Collision Repair
Semester Instructor Name:	Spring
Office Location	Floyd C. Burnham 1322B
Office Hours	
E-mail	7;00 am to 9;00 am
⊏-maii Telephone	Cburnham77@yahoo.com
	Work/School 863-7530 Home 722-2165
Class Meeting Days/Times Location	T-R 6;40 to 9;15 PM
Location	GH 1322
	Syllabus
Title of Course:	Repairing Plastic
Course Number	CRT110
Course Description	Theory and design of plastics, their uses and the repair of plastics in the auto field
Credit Hours and Contact Hours	4 credit hours / 80 Contact Hours
Pre-requisites/co-requisites	None
Learning Objectives and Outcomes	<ul> <li>(upon successful completion of this course the student will)</li> <li>1. Identify and explain the difference between the two types of plastics used in automotive.</li> <li>2. Identify unknown plastics by means of the burn test and a trial-and-error weld</li> <li>3. Repair minor cuts and cracks in plastic using adhesives</li> <li>4. Repair gouges, tears, and punctures in plastic by means of a chemical bonding process</li> <li>5. Operating a typical hot-air welding torch</li> <li>6. Explain the keys to good welding techniques</li> <li>7. Describe the proper welding repair sequence</li> <li>8. Explain the safety precautions used when working with fiberglass</li> <li>9. Explain how fiberglass is used in adhesives to reinforces the damaged surface</li> </ul>

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Location: Gurley Hall 2205 B Email: mloumraz@unm.edu

#### To contact office:

Wilma Lee, Administrative Assistant Phone: (505) 863-7757 Front Desk

Location: Gurley Hall 2205

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#### Course Outline

(May vary according to Instructor)

Teaching Methods (Lecture, Labs, Small Groups, On-Line Components)
May include

- 1. Lecture with, or without, various visual aids
- 2. Group problem solving, discussion, debate, and/or critique
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- 2. Performing on work assignments
- 3. Contributing to class discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Complete repairs in allocated period of time

#### **Grading Scale**

100 - 97=A+ 96 - 93=A Mid Term & Final =30% 90 - 92 = A89 - 87=B+ Hand on Diagnosis & Repair = 40% 86 - 83=B 82 - 80= B-Shop Assignment & Job Sheet =20% 79 - 77=C+ Shop Maintenance =10% 76 - 73=C 72--70=C-69 - 67=D+ 66 -63=D 62 - 60=D-Below 60=F

Required Text(s) & Supporting Materials

Auto Body Repair, Technology 5th Edition

I-CAR CD and Test

Student Technician's Manual 5th Edition

Handouts from Instructor

Suggested tools: Impact ratchet, 1/2

Assessment Methods (How learning objectives will be measured; attach rubric if appropriate)

- 1. Performance on written and oral examination
- 2. Performance on work assignments
- 3. Contributing to work discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- 7. Job sheets

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January					
13 - 15	Classroom Orientation and Safety	CDA/idage Review Overtion			
	Chapter 9 Safety and Efficiency Student Technician's Manual	CD/Videos Review Question Shop Assignment 9-1, 9-2.			
	Student rechnician's Manual	Job 9-1.			
	Chapter 2 Vehicle Construction	Review Question			
	Student Technician's Manual	Shop Assignment 2-1, 2-2			
		Job Sheet 2-1,2-2.			
20- 22	Shop projects				
27- 29	Shop Projects				
February		The first persons at the state of			
03- 05	Shop Projects				
10-12	Shop Projects				
17- 19	Shop Projects				
24	Classroom Chapter 13 Repair Plastic				
	13.1 Types of Plastics				
	13.2 Plastic Repair				
	13.3 Chemical Adhesive	Bonding Quiz			
	Student Technician's Manual				
	Shop Assignment 13.1				
	Job Sheets 13.1,13.2,1	3.3,13.4,13.5,13.6			
25	Shop Projects				
March					
03- 05	Shop Projects				
10-12	Spring Break				
17- 19	Shop Projects				
24	Classroom Chapter 13 Repair Plas	itic			
	Section 13.4 Plastic Welding				
	13.5 Hot-Air Plastic We	그 병사 있는 그 그 그 그는 이 이 경영 등 이 경영 등 등 이 경영 등 등 이 경영			
	13.6 Airless Plastic We	a			
	13.7 Ultrasonic Plastic	Repair Quiz			
. 26	Shop Projects				
April		8. \$P. A. A. A. A. A. A. M. A. A.			
31-02	Shop projects				

07- 09	Shop Projects
14-16	Shop projects
21	Classroom Chapter 13 repair Plastic
	Section 13.8 Plastic Welding Procedures
	13.9 Repairing Vinyl
	13.10 Ultrasonic Stud Welding
	13.11 Reinforced Plastic Repair Review Question
23	Shop Projects
28- 30	Shop Projects
May	
05	Final Test
07	Make up or Miss Test



Name of Division Semester	Applied Technology – Collision Repair			
Instructor Name: Office Location Office Hours E-mail Telephone Class Meeting Days/Times Location	Floyd C. Burnham 1322B 7;00 am to 9;00 am Cburnham77@yahoo.com Work/School 863-7530 Cell 879-1675 Home 722-2169 MTWTF 9;00am to 11;00,am GH 1322			
	Syllabus			
Title of Course:	Advance Painting			
Course Number	CRT 115			
Course Description	Advance course designed to give the student the skills needed to perform spot repairs along with tint and toning of paints to achieve a color match.			
Credit Hours and Contact Hours	4 credit hours / 80 Contact Hours			
Pre-requisites/co-requisites	None			
earning Objectives and Outcomes	<ul> <li>(upon successful completion of this course the student will)</li> <li>1. Determine the type of paint on a car and whether or not the car has been repainted</li> <li>2. Match color and texture by tinting</li> <li>3. Identify the steps in applying various types of colo coats</li> <li>4. Apply base-coat/clear-coat systems</li> <li>5. Recognize and correct defects occurring in plastic paint finish</li> <li>6. Describe the paint finishing systems applicable to plastic parts</li> <li>7. Recognize custom painting and refinishing techniques</li> <li>8. Apply decals, pin striping, and wood grain transfers</li> <li>9. Explain the importance of final touch-up and cleaning to the satisfaction of the customer</li> <li>10. Basic bodywork and mental work</li> </ul>			

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```

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86-83=B 82-80=B- Written Assignments = 20%

79-77=C+ 76-73=C Shop Maintenance = 10%

72-70=C- 69-67=D+

65-63=D 62-60=D- Blow 60 = F

#### Required Text(s) & Supporting Materials

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Suggested tools: Impact ratchet, 1/2

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- 2. Performance on work assignments
- 3. Contributing to work discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- 7. Job sheets

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and follow all rules and procedures.

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January

19 to 21 Classroom Orientation and Safety

Chapter 9 Safety and Efficiency Student Technician's Manual CD/Videos Review Question Shop Assignment 9-1, 9-2. Job 9-1.

25 Classroom Chapter 26

Refinishing Procedures 26.1 Purpose of Refinishing

26.2 Topcoats 26.3 Prime coats

Student Technician's Manual Shop assignment 26.1

Job Sheet 26.1, 26.2. 26.3

26 to 29 FEBRUARY **Shop Projects** 

A

Classroom Chapter 26

**Refinishing Procedures** 

26.4 Preparing Refinish Materials 26.5 Pre-painting Preparations 26.6 Applying Prime coats

02 to 05 Shop Projects

08 Classroom Chapter 26

26.7 Refinishing Plastic Parts

26.8 Flash Times

26.9 Basic Spray Coats

09 to 12 Shop Projects

15 Classroom Chapter 26

26.10 Methods of Refinishing
26.11 Basecoat/Clear coat Repair
26.12 Applying Single Stage Paint
16 to 19
Shop projects
Classroom Chapter 26

26.13 Panel Repair 26.14 Overall Refinishing

26.15 Removal of Masking Materials

23 to 26 Shop Projects

29 Classroom Chapter 26
Review Chapter 26

Complete Shop Assignment and Job Sheets

MARCH 01 to 04

Classroom Final mid term test

08 to 11 Shop Projects

14 to 18 UNM-G Spring Break

Note: Syllabus is subject to change by the instructor at any time for exceptional reasons.



Name of Department Semester	Applied Technology - Collision Repair Fail
Instructor Name:	Floyd C. Burnham
Office Location	Gurley Hall 1322B
Office Hours	7:00 am - 9:00 am and 12:45 pm - 3:00 pm
E-mail	cburnham77@yahoo.com
Telephone	Office: (505) 863-7530
Class Meeting Days/Times	Tuesday & Thursday 6:40 pm - 9:15 pm
Location	Gurley Hall 1317
	Syllabus
Title of Course:	Identification and Analysis of Demo-
Course Number	Identification and Analysis of Damage CRT 120
Course Number Course Description	
Course Description	Teaches theory, diagnosis, basic sheet metal work, steering-suspension, and the difference between perimete and unibody construction.
Credit Hours and Contact Hours	4 Credit Hours / 80 Contact Hours
Pre-requisites/co-requisites	None
Learning Objectives and Outcomes	(upon successful completion of this course the student will)
	<ol> <li>Describe different types of metals used in vehicle construction.</li> <li>Explain the strength ratings of metals</li> </ol>
	3. Summarize the deformation effects of impacts on steel
	4. Use a hammer and dolly to straighten metal
	5. Explain how to bump dents with spoons
	6. List the steps for shrinking metal
	7. Prepare a surface for filler
	8. Correctly mix filler and cream hardener
	9. Use recommended methods for spaning tiller
	<ul><li>9. Use recommended methods for shaping filler</li><li>10. List common mistakes made when using filler and spot putty.</li></ul>

#### **Disabilities Policy**

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be present. Instructors may want to make changes based on style preference or particular course content. It is strongly recommended that you also read this statement to the students at the start of each semester when reviewing course policies, Please include the Notice of Non Discrimination at the bottom, as it is a required addition to this document.

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By Appointment:

Mary Lou Mraz, MSEd, LMSW UNM Student Success Specialist Phone: (505) 863-7527

Location: Gurley Hall 2205 B Email: mloumraz@unm.edu To contact office:

Wilma Lee, Administrative Assistant Phone: (505) 863-7757 Front Desk

Location: Gurley Hall 2205

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#### **Course Outline**

Teaching Methods (Lecture, Labs, Small Groups, On-Line Components)
May include

- 1. Lecture with, or without, various visual aids
- 2. Group problem solving, discussion, debate, and/or critique
- 3. Demonstration in shop and classroom
- 4. Computer assisted instruction
- 5. Hands-on shop work

Evaluation/Grading Methods (Attach Rubric if available)

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- 2. Performing on work assignments
- 3. Contributing to class discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Complete repairs in allocated period of time

#### Grading Scale

100-97 =A+ 96-93 =A	Mid Term & Final – 30%
90-92 =A- 89-87 =B+	Hand on Diagnosis & Repair - 40%
86-83 =B 82-80 =B-	Written Assignments – 20%
79-77 =C+ 76-73 =C	Shop Maintenance – 10%
72-70 =C- 69-67 =D+	
65-63 =D 62-60 =D-	
Below 60 = F	
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#### Required Text(s) & Supporting Materials

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Auto Body Repair Student Technician's Manual 5th Edition

I-CAR CD and Test

Instructor Handouts

Suggested tools: 1/2" Impact Ratchet

Safety Glasses

Assessment Methods (How learning objectives will be measured; attach rubric if appropriate)

- 1. Performance on written and oral examination
- 2. Performance on work assignments
- 3. Contributing to work discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- 7. Job sheets

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-No	cell	phones	CD	play	yers

Shop Behavior
-No shorts, sweatpants or shirts

- -Lap-top or electronic devices
- -Without instructor's permission
- -Must follow all rules and procedures.
- -Long hair must be tie up or cover up.
- -MUST wear safety glasses, steel toe shoes.
- -Only blue, black pens or pencils

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#### Weekly Schedule of Topics, Readings, Assignments, Tests and other Activities

#### August

20-22 Classroom - Orientation and Safety
Chapter 9 Safety and Efficiency

Student Technician's Manual

27-29 Classroom

Chapter 2 Vehicle Construction
Student Technician's Manual

CD/Videos Review Question Shop Assignment 9-1, 9-2; Job 9-1

Review Question
Shop Assignment 2-1, 2-2
Job Sheet 2-1, 2-2

#### September

03-05 Shop Projects

10-12 Shop Projects

17-19 Shop Projects

24 Classroom - Chapter 3 Service Information

3-1 Service information

3-2 Vehicle identification

3-3 Using Service Information

3-4 Collision Repair Measurements

Quiz

Student Technician's Manual

Shop Assignment 3-1, 3-2, 9-3, 3-4

Job Sheets 3-1, 3-2

26 Shop Projects

#### October

01-03 Shop Projects

08-10 Shop Projects

15 Shop Projects

#### 17 Fall Break - NO CLASSES 22-24 Shop Projects 29 Classroom - Chapter 10 10-1 The Estimate 10-2 Part Prices 10-3 Labor Cost 10-4 Refinishing Time 10-5 Estimate Total Student Technician's Manual Shop Assignment 10-1, 10-2 Job Sheet 10-1 **Shop Projects** 31 November 05-07 Shop Projects 12-14 Shop Projects 19-21 Shop Projects 26 Shop projects 28 Thanksgiving Holiday - CAMPUS CLOSED December 03 Classroom - Chapter 10 10-6 Computer Estimating 10-7 Computer Database 10-8 Estimating Sequence 10-9 Vehicle Total loss 05 **Shop Projects** 13 Final Exam Exam makeup - if missed Tuesday class 15

# UNIM GALLUP

Name of Department Semester	Applied Technology - Collision Repair Fall			
Instructor Name: Office Location	Floyd C. Burnham Gurley Hall 1322B			
Office Hours	7:00 am – 9:00 am and 12:45 pm – 3:00 pm			
E-mail	cburnham77@yahoo.com			
Telephone	Office: (505) 863-7530			
Class Meeting Days/Times	Tuesday & Thursday 3:30 pm – 6:00 pm			
Location	Gurley Hall 1317			
	Syllabus			
Title of Course:	Replacement of Structural Components			
Course Number	CRT 121			
Course Description	Involves cutting, measuring, and welding a new body panel in place of a badly damaged one. Identify oxyacetylene welding equipment and techniques.			
Credit Hours and Contact Hours	4 credits hours / 80 Contact Hours			
Pre-requisites/co-requisites	None			
Learning Objectives and Outcomes	<ul> <li>(upon successful completion of this course the student will)</li> <li>1. Describe windshield glass replacement procedures</li> <li>2. Describe how to replace a bumper</li> <li>3. Locate and correct wind and water leaks</li> <li>4. Install body accessories such as moldings</li> <li>5. Explain the types of restraint systems</li> <li>6. Explain how to replace and repair vinyl roofs</li> <li>7. Remove and install moldings</li> <li>8. Answer ASE test questions relating to glass, trim, and other service operations</li> <li>9. Explain the importance of final touch-up &amp; cleaning to the satisfaction of the customer</li> <li>10. Basic bodywork &amp; mental work</li> <li>11. Refinishing work (masking &amp; detailing)</li> <li>12. Attendance is part of your grade</li> <li>Course content, Scope: and Outcome</li> <li>Classroom quizzes &amp; tests. Math problems along with critical thinking &amp; essay questions.</li> <li>1. Topcoats</li> <li>2. Applying undercoats</li> <li>3. Determining if the auto had been painted</li> <li>4. Determining type of pain on vehicle</li> <li>5. Selecting solvents (reducers &amp; thinners)</li> <li>6. Repainting spray methods</li> </ul> Disabilities Policy:			

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#### **Course Outline**

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- 1. Lecture with, or without, various visual aids
- 2. Group problem solving, discussion, debate, and/or critique
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- 5. Hands-on shop work

#### Evaluation/Grading Methods (Attach Rubric if available)

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86-83	=B	82-80	=B-	Written Assignments – 20%
79-77	=C+	76-73	=C	Shop Maintenance – 10%
72-70	=C-	69-67	=D+	Cars, trucks & other shop projects can be done for
65-63	=D	62-60	=D-	extra credit
Below 6	30 = F			

#### Required Text(s) & Supporting Materials

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Auto Body Repair Student Technician's Manual 5th Edition

I-CAR CD and Test

Instructor Handouts

Suggested tools: 1/2" Impact Ratchet

Safety Glasses

Paint Gun - Suggested Tool

#### Assessment Methods (How learning objectives will be measured; attach rubric if appropriate)

- 1. Performance on written and oral examination
- 2. Performance on work assignments
- 3. Contributing to work discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- 7. Job sheets

Attendance Policy and policies on classroom behavior (use of cell phones, academic dishonesty, lap-top use, etc.)

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- -Lap-top or electronic devices
- -Without instructor's permission
- -Must follow all rules and procedures.

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#### August

20-22 Classroom – Orientation and Safety Chapter 9 Safety and Efficiency

Student Technician's Manual

Safety Videos and Test Shop Assignment 9-1 Job sheet 9-1

27-29 Classroom

Chapter 2 Vehicle Construction
Student Technician's Manual

Review Questions
Shop Assignment 2-1, 2-2
Job Sheet 2-1, 2-2

#### September

03-05 Shop Projects

10-12 Shop Projects

17-19 Shop Projects

24 Classroom - Chapter 19 Welded Panel Replacement

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		19-1 Weld panels 19-2 Removing Structural 19-3 Preparing Panels for Welding Student Technician's Manual		
		Shop Assignment 19-1 Job Sheets 19-1, 19-2		
	26	Shop Projects		
Octob	er			
	01-03	Shop Projects		
	08-10	Shop Projects		
	15	Shop Projects		
	17	Fall Break - NO CLASSES		-
	22	Classroom Chapter 19 Weld Panel Replacement 19-4 Structural Sectioning 19-5 Sectioning Side Members 19-6 Rear Impact Damage Repair Student Technician's Manual Job Sheet 19-3, 19-4		
	24	Shop Projects	. 5 . 1 V.	-
	29-31	Shop Projects		-
Nover	nber			-
	05-07	Shop Projects		-
	12-14	Shop Projects		-
	19	Classroom - Chapter 19 Weld Panel Replacement 19-7 Antirust Treatments 19-8 Replacing welded panels with Adhesives		
	21	Shop Projects		-
	26-28	Shop Projects		
Decer	nber			
		Shop Projects		-
	10	Final Exam		William Comment
	12	Exam makeup – if missed Tuesday class		1



Name of Department Semester	Applied Technology – Collision Repair Fall
Instructor Name: Office Location Office Hours E-mail Telephone Class Meeting Days/Times Location	Floyd C. Burnham 1322B 7;00 am to 9;00 am Cburnham77@yahoo.com Work/School 863-7530 Cell 879-1675 Home 722-2165 T/TR 3;30 to 6;00 PM GH 1322
	Syllabus
Title of Course:	Straightening & Measuring, Systems I, Non-Structural Analysis and Damage Repair
Course Number	CRT 122
Course Description	Measuring principles and techniques is the study of modern measuring concepts and use of reference manual.
Credit Hours and Contact Hours	4 credit hours / 80 Contact Hours
Pre-requisites/co-requisites	None
Learning Objectives and Outcomes	<ul> <li>(upon successful completion of this course the student will)</li> <li>1. Distinguish between body-over-frame and uni-body vehicles</li> <li>2. Explain how impact forces are transmitted through both frame and uni-body construction vehicles</li> <li>3. Describe how to visually determine the extent of impact damage</li> <li>4. List the various types and variations of body measuring tools</li> <li>5. Analyze damage by measuring body dimensions, impact damage to mechanical parts of the vehicle</li> <li>6. Explain the importance of the datum plane and centerline concepts related to uni-body repair</li> <li>7. Interpret body dimension information and locate key reference points on a vehicle using body dimension manuals</li> <li>8. Discuss the use of tram bars, self-centering gauges, and strut tower gauge</li> <li>9. Diagnose various types of body damage, including twist, mash, sag, and side sway</li> <li>10. Given a damaged vehicle and a body specification manual, locate and measure key points using a tape measure, tram bar, and self-centering gauges</li> </ul>

- 11. Describe the two types of universal measuring systems
- 12. Explain the operation of the dedicated fixture system, including the use of bolt-on, pin-type, and MacPherson fixtures and bench extensions

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#### Required Text(s) & Supporting Materials

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I-CAR CD and Test

Student Technician's Manual 5th Edition

Handouts from Instructor

Suggested tools: Impact ratchet, 1/2

#### **Assessment Methods**

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and follow all rules and procedures.

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#### Weekly Schedule of Topics, Readings, Assignments, Tests and other Activities

#### **AUGUST**

T TR

18 Classroom Orientation and Safety

Chapter 9 Safety and Efficiency

Student Technician's Manual

20 Chapter 2 Vehicle Construction

Student Technician's Manual

CD/Videos Review Question

Shop Assignment 9-1, 9-2.

Job 9-1.

Review Question

Shop Assignment 2-1, 2-2

Job Sheet: 2-1.2-2.

#### 25-27 Shop Projects

#### SEPTEMBER

T TR

30-04 Shop Projects

08 Classroom

Classroom Chapter 17 Body/Frame Damage measurement

17-1 Impact and Its Effects on a Vehicle

17-2 Visually Determining the Extent of Impact Damage

17.3 Measurement of Body Dimensions

17.4 Gauge Measuring System

17.5 Tram Gauges

17.6 Digital Tram Gauges Quiz

Shop Assignment

17-1 Identify Conventional Frame Damage

17.2 Simulated Measurements

**Job Sheets** 

17-1 Uni-body Measurements

17.2 Damaged Vehicle Measurements

Review Questions 1.2.3.4.5.

**Shop Projects** 10 **Shop Projects** 15-17 22-24 **Shop Projects Shop Projects** 29-01 **OCTOBER** T TR 06 Classroom Chapter 17 Body / Frame Damage Measurement 17.7 Centering Gauges 17.8 Diagnosing damage Using Gauge Measuring System 17.9 Strut Centerline Gauge 17.10 Universal Measuring System 17.12 Computerized Quiz **Shop Assignments** 17-3 Misalignment Measurements Job Sheets 17-3 Quick checks Review Question: 6.7.8.9.10. 08 **Shop Projects** Spring Break 13-15 **Shop Projects** 20-22 27-29 **Shop Projects NOVEMBER** T TR 03-05 **Shop Projects** 10 **Classroom Chapter 17 Review and Test** 12 **Shop Projects** 27-19 **Shop Projects Shop Projects** 24 26 **THANKSGIVING DECEMBER** T TR 01-03 **Shop Projects** 80 **FINAL EXAM** 10 Clean up and Make up test



Name of Division	Applied Technology - Collision Repair.		
Semester	Spring		
Instructor Name	Floyd C. Burnham		
Office Location	1322B		
Office Hours	7;00 am to 9;00 am		
E-mail	Cburnham77@yahoo.com		
Telephone	Work/School 863-7530 Home 722-2165		
Class Meeting Days/Times	T-TR 6;40 to 9;15 PM		
Location	GH 1322		
	Syllabus		
Title of Course:	Straightening & Measuring System II, Structural Analysis and Damage Repair		
Course Number	CRT 124		
Course Description	Detailing study of anchoring, pulling equipment, pulling concepts, and stress relieving in body repairs.		
Credit Hours and Contact Hours	4 credit hours / 80 Contact Hours		
Pre-requisites/co-requisites	None		
Learning Objectives and Outcomes	(upon successful completion of this course the student will)		
	1. List the types of straightening equipment and explain how they are used		
	Describe the basic straightening and realigning techniques		
	Identify safety considerations for using alignment equipment		
	4. Plan and execute collision repair procedures		
	5. Identify signs of stress/deformation on a uni-body car and make the repairs		
	6. Determine if a repair or replacement can be done before, during, or after pulling		

In keeping with University of New Mexico policy (UNIVERSITY BUSINESS POLICIES AND PROCEDURES MANUAL: "POLICY 2310: ACADEMIC ADJUSTMENTS FOR STUDENTS WITH DISABILITIES") and defined sections: Section 504 of the Rehabilitation Act of 1973, Section 508: The Rehabilitation Act Amendments of 1998, ADA: The Americans with Disabilities Act of 1990, and the ADAA: The American with Disabilities Act Amendments of 2008 - of providing equal access to individuals with disabilities, instructors are strongly encouraged to include a statement on their syllabus informing students that academic accommodations can be provided on the basis of disability if the student follows the protocol described. The following statement contains all of the elements that should be present. Instructors may want to make changes based on style preference or particular course content. It is strongly recommended that you also read this statement to the students at the start of each semester when reviewing course policies. Please

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#### STUDENT SERVICES - CAREER &ACCESSIBILITY RESOURCE CENTER (ARC)

#### By Appointment:

Mary Lou Mraz, MSEd, LMSW UNM Student Success Specialist

Phone: (505) 863-7527
Location: Gurley Hall 2205 B
Email: mloumraz@unm.edu

#### To contact office:

Wilma Lee, Administrative Assistant Phone: (505) 863-7757 Front Desk

Location: Gurley Hall 2205

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#### Course Outline

Teaching Methods (Lecture, Labs, Small Groups, On-Line Components)
May include

- 1. Lecture with, or without, various visual aids
- 2. Group problem solving, discussion, debate, and/or critique
- 3. Demonstration in shop and classroom
- 4. Computer assisted instruction
- 5. Hands-on shop work

Evaluation/Grading Methods (Attach Rubric if available)

A student's grade will be based on multiple measures of performance, and will reflect the level of accomplishment of the objectives set forth above as well as the level of understanding of the

topics enumerated under "Content and Scope." A final grade of "C" or better will indicate that the student has the ability to successfully apply the principles taught in this course to subsequent courses, to the work-place, or the personal goals as appropriate. The assessment process will also measure independent critical thinking skills and will reflect the student's ability to demonstrate their accomplishments by:

- 1. Performing on written or oral examinations
- 2. Performing on work assignments
- 3. Contributing to class discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Complete repairs in allocated period of time

#### Required Text(s) & Supporting Materials

Auto Body Repair, Technology 5th Edition

I-CAR CD and Test

Student Technician's Manual 5th Edition

Handouts from Instructor

Impact ratchet, 1/2 Suggested tools:

#### Assessment Methods

- 1. Performance on written and oral examination.
- 2. Performance on work assignments
- 3. Contributing to work discussion and clean-up
- 4. Maintaining attendance per current policy
- 5. Completion of repairs in allocated period of time
- 6. Shop assignment
- 7. Job sheets

#### Attendance Policy and policies on classroom behavior

Each student is expected to attend every class session and be responsible for all assignment. If you are not present when attendance is taken you be considered absent.

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Three (3) tardies will equal an absent.

Three (3) un-excused absences will be caused to drop you from class, and fail the class.

#### Classroom Behavior

No cell phones CD players Lap-top or electronic devices Without instructor's permission Only blue or black ink pens or pencils

#### Shop Behavior

No shorts sweatpants or shirts Long hair must be tie up or cover up MUST wear safety glasses, steel toe shoes and follow all rules and procedures.

#### **Academic Dishonesty**

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W.	eekly Schedule of Topics, Readings, Assignm	ients, Tests and other Activities
January		
T TR		
19	Classroom Orientation and Safety	
	Chapter 9 Safety and Efficiency	CD/Videos Review Question
	Student Technician's Manual	Shop Assignment 9-1, 9-2. Job 9-1
21	Chapter 2 Vehicle Construction	Review Question
	Student Technician's Manual	Shop Assignment 2-1, 2-2
÷ .		Job Sheet 2-1,2-2.
26 28	Shop Projects	
February		
02 04	Shop Projects	
09/11 16/18	Shop Projects Shop Projects	
23	Classroom Chapter 18 Uni-body Realignme	nt
F.7	18.1 Realignment Basic	
	18.2 Uni-body/Frame Straightenii	
	18.3 Straightening and Realignin	g Shop Assignment 183
	18.4 Measuring When Pulling Student technician's Manual	
	Shop Assignment	
	18-1 Clamp Identification	
	18-2 Pull Plans	
	Job Sheet	
	18-1 Universal Bench Mounting	
	Review: 1, 2,3,4,5,	
25	Shop Projects	
18 20	Spring Break	
23 25	Shop Projects	
March		
01 03	Shop Projects	
08 10	Shop Projects	
15 17	Shop projects	
22	Classroom Chapter 18 Uni-body Realignm	ent
	18.5 Planning the Pulling	
	18.6 Making Pulls	
	18.7 Executing A Pulling Sequen	<b>ce</b>
	18.8 Stress Relieving Student Technician's Manual	
	Shop Assignment	
	18-3 Identifying Pulls	
Activities of the second		

	Job Sheet	Palabana.
	18-2 Truck Tie down	
	Review Questions 6.7,8.9,10.	
24	Shop Projects	
		4
29 31	Shop Projects	
April .	ting the state of the second o	
05 07	Shop Projects	Y
12 14	Shop projects	1
19	Classroom Chapter 18 Review and Test	Şer.
21	Shop Projects	
26 28	Shop Projects	
May		
03 05	Shop Projects	10
10	Classroom FINAL EXAM	-1
12	Clean UP Make Up Test	



Name of Division Semester	Applied Technology - Collision Repair		
Instructor Name Office Location Office Hours E-mail Telephone Class Meeting Days/Times Location	Floyd C. Burnham 1322B 7;00 am to 9;00 am and 12:45pm-3:00pm Cburnham77@yahoo.com Work/School 863-7530 Cell: 879-1675 Home: 722-2165 MTWTF 8:55 to 9:15 GH 1322		
	Syllabus		
Title of Course:	Custom Painting		
Course Number	CRT 210		
Course Description	Advance course designed to give the student the skills needed to perform spot repairs along with tint and toning of paints to achieve a color match		
Credit Hours and Contact Hours	4 Credit Hours / 80 Contact Hours		
Pre-requisites/co-requisites Learning Objectives and Outcomes	None (upon successful completion of this course the student		
	<ul> <li>will)</li> <li>Determine the type of paint on a car and whether or not the car has been repainted</li> <li>Match color and texture by tinting</li> <li>Identify the steps in applying various types of color coats</li> <li>Apply base-coat/clear-coat systems</li> <li>Recognize and correct defects occurring in plastic paint finish</li> <li>Describe the paint finishing systems applicable to plastic parts</li> <li>Recognize custom painting and refinishing fechniques</li> <li>Apply decals, pin striping, and wood grain transfers.</li> <li>Explain the importance of final touch-up and cleaning to the satisfaction of the customer.</li> <li>Basic bodywork and mental work</li> <li>Refinishing work (masking and detailing)</li> <li>Course content, Scope: and Outcome</li> <li>Classroom quizzes and tests. Math problems along with critical thinking and essay questions.</li> <li>Topcoat</li> </ul>		

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- 3. Determining if the auto has been painted
- 4. Determining type of pain on vehicle
- Selecting solvents (reducers and thinners)
- 6. Repainting spray methods

#### Disabilities Policy:

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#### **Course Outline**

#### Teaching Methods

#### May include

- 1. Lecture with, or without, various visual aids
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- 4. Maintaining attendance per current policy
- 5. Complete repairs in allocated period of time

#### Grading Scale

100-97=A+ 96-93=A Mid Term & Final = 30%

92-90=A- 89-87=B+ Hand on Diagnosis & Repair = 40%

86-83=B 82-80=B- Written Assignments = 20%

79-77=C+ 76-73=C Shop Maintenance = 10%

72-70=C- 69-67=D+

65-63=D 62-60=D- Blow 60 = F

#### Required Text(s) & Supporting Materials

Auto Body Repair, Technology 5th Edition

I-CAR CD and Test

Student Technician's Manual 5th Edition

Handouts from Instructor

Suggested tools: Impact ratchet, 1/2

#### Assessment Methods

- 1. Performance on written and oral examination
- 2. Performance on work assignments
- Contributing to work discussion and clean-up
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- Shop assignment
- Job sheets

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MUST wear safety glasses, steel toe shoes

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Classroom Orientation and Safety 21 to 25

Chapter 9 Safety and Efficiency Student Technician's Manual

CD/Videos Review Question Shop Assignment 9-1, 9-2.

Job Sheet: 9-1.

Classroom Chapter 27 2

Color Matching and custom Painting

27.1 Color Theory

27.2 Using a Paint Color Directory

Student Technician's Manual

Both must be completed by May 7th Shop Assignments 27.1,28.1,28.2

Job Sheets 27,1,27,2,27.3,27.4,27.5,27.6,28.1,28.2,28.3

29 to 01 APRIL

Shop Projects

04 Classroom Chapter 27

> Color Matching and Custom Painting 27.3 Matching Basic Paint Color

27.4 Matching Basecoat/clear coat Finishes

27.5 Matching Three-Stage Paints

05 to 08 Shop projects

11 Classroom Chapter 27

Color Matching and Custom Painting

27.6 Tinting

27.7 Custom Painting

12 to 15 Shop Project

18 Classroom Chapter 28

Paint Problems and Final Detailing CD/Videos Quiz

28.1 Repairing Paint Problems

28.2 Masking Problems

19 to 22 Shop Projects

25 Classroom Chapter 28

Paint Problems and Final Detailing

28.3 Final Detailing 28.4 Paint Compounding

26 to 29 Shop Projects

MAY

02 Classroom Chapter 28

Paint Problems and Final Detailing

28.5 Final Cleaning

28.6 Caring for a New Finish

03 to 06 Shop Projects 09 Final Test

10 to 13 Shop Cleanup and Shop project

Note: Syllabus is subject to change by the instructor at any time for exceptional reasons.



Name of Division Semester	Applied Technology - Collision Repair Spring
Instructor Name:	Floyd C, Burnham
Office Location	1322B
Office Hours	7;00 am to 9;00 am and 12:45pm-3:00pm
E-mail	Cburnham77@yahoo.com
Telephone	Work/School 863-7530 Cell 879-1675 Home 722-2165
Class Meeting Days/Times	Monday-Friday 8:55am-11:15am
Location	GH 1322

#### Syllabus

Tille of Course:	Restoration
Course Number	CRT 211
Course Description	Restore car/ truck to original shape. Leading rust repair replacement of weather stripping.
Credit Hours and Contact Hour	4 credit hours.
Pre-requisites/co-requisites	None 3-3
Learning Objectives and Outcomes	(upon successful completion of this course the student will)  1. Lead filling 2. Rust repair 3. Determine value of restorability of automobile 4. How to use restoration publications 5. How to use salvage parts. 6. Disassembly and catalog of autos 7. Determine repair ability of original parts 8. Repairing with lead 9. Restoring corrosion protection 10. Body Fillers 11. Applying lead filler 12. Repairing small rust-outs 13. Repairing large rust-outs

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- 4. Maintaining attendance per current policy
- Complete repairs in allocated period of time.

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100-97 =A+	Mid Term & Final – 30%
96-93 =A	Hand on Diagnosis & repair - 40%
90-92 =A-	Written assignments – 20%
89-87 =B+	Shop maintenance – 10%
86-83 =B	
80-82 =B-	
79-77 =C+	
73-76 =C	
70-72 =C-	
67-69 =D+	
63-66 =D	
60-62 =D-	
BELOW 60 =F	

### Required Text(s) & Supporting Materials

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I-CAR CD and Test

Student Technician's Manual 5th Edition

Handouts from Instructor

Suggested tools: Impact ratchet, 1/2

### Assessment Methods Performance on written and oral examination

- 1. Performance on work assignments
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### Weekly Schedule of Topics, Readings, Assignments, Tests and other Activities

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### **Automotive Body and Glass Repairers**

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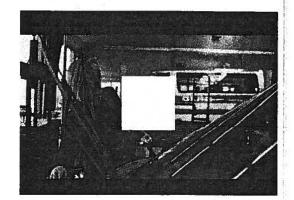
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### **Summary**

Quick Facts: Automotive Bod	ly and Glass Repairers
2016 Median Pay	\$40,370 per year \$19.41 per hour
Typical Entry-Level Education	High school diploma or equivalent
Work Experience in a Related Occupation	Nane
On-the-job Training	See How to Become One
Number of Jobs, 2016	180,000
Job Outlook, 2016-26	8% (As fast as average)
Employment Change, 2016-26	14,900



### What Automotive Body and Glass Repairers Do

Automotive body and glass repairers restore, refinish, and replace vehicle bodies and frames, windshields, and window glass.

### **Work Environment**

Automotive body repairers work indoors in body shops, which are often noisy. Shops are typically well ventilated, so that dust and paint fumes can be dispersed. Repairers sometimes work in awkward and cramped positions, and their work can be physically demanding.

Automotive glass installers and repairers often travel to the customer's location to repair damaged windshields and window glass.

### How to Become an Automotive Body or Glass Repairer

Most employers prefer to hire automotive body and glass repairers who have completed a training program in automotive body or glass repair. Still, many new automotive body and glass repairers begin work without previous training. Industry certification is becoming increasingly important.

### Pay.

The median annual wage for automotive body and related repairers was \$41,540 in May 2016.

The median annual wage for automotive glass installers and repairers was \$34,340 in May 2016.

### **Job Outlook**

Overall employment of automotive body and glass repairers is projected to grow 8 percent from 2016 to 2026, about as fast as the average for all occupations. Job opportunities should be best for jobseekers with industry certification and training in automotive body and glass repair.

### State & Area Data

Explore resources for employment and wages by state and area for automotive body and glass repairers.

### Similar Occupations

Compare the job duties, education, job growth, and pay of automotive body and glass repairers with similar occupations.

### More Information, including Links to O\*NET

Learn more about automotive body and glass repairers by visiting additional resources, including O\*NET, a source on key characteristics of workers and occupations.

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for structural damage.

Similar Occupations

Automotive body and glass repairers inspect car frames

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About this section

### What Automotive Body and Glass Repairers Do

Automotive body and glass repairers restore, refinish, and replace vehicle bodies and frames, windshields, and window glass.

### **Duties**

Automotive body repairers typically do the following:

- Review damage reports, prepare cost estimates, and plan work
- Inspect cars for structural damage
- Remove damaged body parts, including bumpers, fenders, hoods, grilles, and trim
- Realign car frames and chassis to repair structural damage
- Hammer out or patch dents, dimples, and other minor body damage
- Fit, attach, and weld replacement parts into place
- Sand, buff, and prime refurbished and repaired surfaces
- Apply new finish to restored body parts

Automotive glass installers and repairers typically do the following:

- Examine damaged glass or windshields and assess repairability
- Clean damaged areas and prepare the surfaces for repair
- Stabilize chips and cracks with clear resin
- · Remove glass that cannot be repaired
- · Check windshield frames for rust
- Clean windshield frames and prepare them for installation
- · Apply urethane sealant to the windshield frames
- Install replacement glass
- Replace any parts removed prior to repairs

Automotive body and glass repairers can repair most damage from vehicle collisions and make vehicles look and drive like new. Repairs may be minor, such as replacing a cracked windshield, or major, such as replacing an entire door panel. After a major collision, the underlying frame of a car can become weakened or compromised, Body repairers restore the structural integrity of car frames to manufacturer specifications,

Body repairers use pneumatic tools and plasma cutters to remove damaged parts, such as bumpers and door panels. They also often use heavy-duty hydraulic jacks and hammers for major structural repairs, such as aligning the body. For some work, they use common hand tools, such as metal files, pliers, wrenches, hammers, and screwdrivers.

In some cases, body repairers complete an entire job by themselves. In other cases, especially in large shops, they use an assembly line approach in which they work as a team with each individual performing a specialized task.

Although body repairers sometimes prime and paint repaired parts, painting and coating workers generally perform these tasks.

Glass installers and repairers often travel to the customer's location and perform their work in the field. They commonly use specialized tools such as vacuum pumps to fill windshield cracks and chips with a stabilizing resin. When windshields are badly damaged, they use knives to remove the damaged windshield, and then they secure the new windshield using a special urethane adhesive.

<- Summary

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Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Automotive Body and Glass Repairers, on the Internet at https://www.bls.gov/ooh/installation-maintenance-and-repair/automotive-body-and-glass-repairers.htm (visited January 30, 2018).

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### **Work Environment**

Automotive body and related repairers held about 160,400 jobs in 2016. The largest employers of automotive body and related repairers were as follows:

Automotive body, paint, interior, and glass repair Automobile dealers

19

Self-employed workers

57%

Automotive mechanical and electrical repair and maintenance

Automotive glass installers and repairers held about 19,600 jobs in 2016. The largest employers of

Automotive body, paint, interior, and glass repair

87%

Self-employed workers Construction

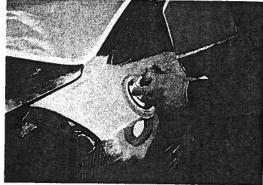
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Automotive parts, accessories, and tire stores

automotive glass installers and repairers were as follows:

shops.



Automotive body repairers typically work indoors in body

Body repairers typically work indoors in body shops, which are often noisy. Most shops are well ventilated, so that dust and paint fumes can be dispersed. Glass installers and repairers often travel to the customer's location to repair damaged windshields and window glass.

Automotive body and glass repairers sometimes work in awkward and cramped positions, and their work can be physically demanding.

### Injuries and Illnesses

Automotive body repairers have a higher rate of injuries and illnesses than the national average. These workers may suffer minor injuries, such as cuts, burns, and scrapes. Following safety procedures helps to avoid serious accidents.

### Work Schedules

Most automotive body and glass repairers work full time. When shops have to complete a backlog of work, overtime is common. This often includes working evenings and weekends.

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Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Automotive Body and Glass Repairers, on the Internet at https://www.bis.gov/ooh/installation-maintenance-and-repair/automotive-body-and-glass-repairers.htm (visited January 30, 2018).

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Automotive Body and Glass Repairers: Occupational Outlook Handbook: : U.S. Bureau of Labor Statistics

Detail oriented. Automotive body and glass repairers must pay close attention to detail. Restoring a damaged auto body or windshield requires workers to have a keen eye for even the smallest imperfection.

Dexterity. Automotive body repairers' tasks, such as removing door panels, hammering out dents, and using hand tools to install parts, require a steady hand and good hand-eye coordination.

Mechanical skills. Automotive body repairers must know which diagnostic, hydraulic, pneumatic, and other power equipment and tools are appropriate for certain procedures and repairs. They must know how to apply the correct techniques and methods necessary to repair automobiles.

Physical strength. Automotive body and glass repairers must sometimes lift heavy parts, such as door panels and windshields.

Time-management skills. Automotive body and glass repairers must be timely in their repairs. For many people, their automobile is their primary mode of transportation.

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### SUGGESTED CITATION:

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Automotive Body and Glass Repairers, on the Internet at https://www.bls.gov/coh/installation-maintenance-and-repair/automotive-body-and-glass-repairers.htm (visited January 30, 2018).

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U.S. Bureau of Labor Statistics | Office of Occupational Statistics and Employment Projections, PSB Suite 2135, 2 Massachusetts Avenue, NE Washington, DC 20212-0001 www.bls.gov/ooh | Telephone: 1-202-691-5700 | Contact OOH

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About this section

### How to Become an Automotive Body or Glass Repairer

Most employers prefer to hire automotive body and glass repairers who have completed a training program in automotive body or glass repair. Still, many new body and glass repairers begin work without previous training. Industry certification is increasingly important.

### Education

High school, trade and technical school, and community college programs in collision repair combine hands-on practice and technical instruction. Topics usually include electronics, repair cost estimation, and welding, all of which provide a strong educational foundation for a career as a body repairer.

Trade and technical school programs typically award certificates after 6 months to 1 year of study. Some community colleges offer 2-year programs in collision repair. Many of these schools also offer certificates for individual courses, so students can take classes part time or as needed.



Automotive glass repairers receive hands-on practice while attending programs in collision repair.

### Training

New workers typically begin their on-the-job training by helping an experienced body repairer with

basic tasks, such as fixing minor dents. As they gain experience, they move on to more complex work, such as aligning car frames. Some body repairers may become trained in as little as 1 year, but they generally need 2 or 3 years of hands-on training to become fully independent body repairers.

Basic automotive glass installation and repair can be learned in as little as 6 months, but becoming fully independent can take up to a year of training.

Workers who complete programs in collision repair often require significantly less on-the-job training. They typically advance to independent work more quickly than those who do not have the same level of education.

Throughout their careers, body repairers need to continue their training to keep up with rapidly changing automotive technology and materials. Body repairers are expected to develop their skills by reading technical manuals and by attending classes and seminars. Many employers regularly send workers to advanced training programs, such as those offered by the Inter-Industry Conference on Auto Collision Repair (I-CAR).

### Licenses, Certifications, and Registrations

Although not required, certification is recommended because it shows competence and usually brings higher pay. In some instances it is required for advancement beyond entry-level work.

Certification from the National Institute for Automotive Service Excellence (ASE) is a standard credential for body repairers. In addition, many vehicle and paint manufacturers have product certification programs that are used to train body repairers in specific technologies and repair methods.

A few states require a license to perform automotive glass installation and repair. Check with your state for more information.

### Advancement

Automotive body and glass repairers earn more money as they gain experience, and some may advance into management positions within body shops, especially those workers with 2- or 4-year degrees.

### Important Qualities

Critical-thinking skills. Automotive body and glass repairers evaluate vehicle damage and determine necessary repair strategies. In some cases, they must decide if a vehicle is "totaled," or too damaged to justify the cost of repair.

Customer-service skills. Automotive body and glass repairers discuss auto body and glass problems, along with options to fix them, with customers. Workers must be courteous, good listeners, and ready to answer customers' questions.

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\$41,540

\$40,930

\$40,370

Pay

The median annual wage for automotive body and related repairers was \$41,540 in May 2016. The median wage is the wage at which half the workers in an occupation earned more than that amount and half earned less. The lowest 10 percent earned less than \$24,880, and the highest 10 percent earned more than \$70,620.

The median annual wage for automotive glass installers and repairers was \$34,340 in May 2016. The lowest 10 percent earned less than \$22,480, and the highest 10 percent earned more than \$51,540.

In May 2016, the median annual wages for automotive body and related repairers in the top industries in which they worked were as follows:

Automobile dealers \$41,700 Automotive body, paint, interior, and glass repair 41,550 Automotive mechanical and electrical repair and 41,150 maintenance

In May 2016, the median annual wages for automotive glass installers and repairers in the top industries in which they worked were as follows:

Construction \$39,450 Automotive body, paint, interior, and glass repair

34,420 Automotive parts, accessories, and tire stores 28,310 About this section

### **Automotive Body and Glass Repairers**

Median annual wages, May 2016

Automotive body and related repairers

Vehicle and mobile equipment mechanics, installers, and repairers

Automotive body and glass

Total, all occupations

Automotive glass installed and repairers

\$34,340

\$37,040

Note: All Occupations includes all occupations in the U.S. Economy. Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics

The majority of repair shops and auto dealers pay automotive body and glass repairers on an incentive basis. In addition to receiving a guaranteed base salary, employers pay workers a set amount for completing various tasks. Their earnings depend on both the amount of work assigned and how fast they complete it.

Most automotive body and glass repairers work full time. When shops have to complete a backlog of work, overtime is common. This often includes working evenings and weekends,

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Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Automotive Body and Glass Repairers, on the Internet at https://www.bis.gov/ooh/installation-maintenance-and-repair/automotive-body-and-glass-repairers.htm (visited January 30, 2018).

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### Similar Occupations

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2016 MEDIAN PAY

This table shows a list of occupations with job duties that are similar to those of automotive body and glass repairers.

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Aircraft and **Avionics** Equipment Mechanics and <u>Technicians</u>

OCCUPATION

<u>Automotive</u> Service Technicians and Mechanics



Claims Adjusters. Appraisers, Examiners, and Investigators



Diesel Service Technicians and Mechanics



<u>Giaziers</u>



**Heavy Vehicle** and Mobile Equipment Service **Technicians** 



Painting and **Coating Workers**  JOB DUTIES

Aircraft and avionics equipment mechanics and technicians repair and perform scheduled maintenance on aircraft.

Automotive service technicians and mechanics, often called service technicians or service techs, inspect, maintain, and repair cars and light trucks.

Claims adjusters, appraisers, examiners, and investigators evaluate Insurance dalms. They decide whether an insurance company must pay a claim, and if so, how much.

> Diesel service technicians (also known as diesel technicians) and mechanics inspect, repair, and overhaul buses and trucks, or maintain and repair any type of diesel engine.

Glaziers Install glass in windows, skylights, and other fixtures in storefronts and buildings.

Heavy vehicle and mobile equipment service technicians, also called mechanics, inspect, maintain, and repair vehicles and machinery used in construction, farming, rail transportation, and other industries.

Painting and coating workers paint and coat a wide range of products, including cars, jewelry, and ceramics, often with the use ENTRY-LEVEL EDUCATION 🦃

See How to Become One \$60,270

Postsecondary nondegree award \$38,470

See How to Become One \$63,670

High school diploma or equivalent \$45,170

High school diploma or equivalent \$41,920

High school diploma or equivalent

See How to Become One \$35,300

\$47,690

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### **Document 2**

• Registrar summary indicating enrollment trends, etc.

### **Registrar/Enrollment History**

1. Indicate departmental enrollment for the past five (5) years for fall and spring semesters. Fall 2013 to Spring 2018

Fall Semester:	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
Total Student Credit Hours	305	300	263	141	148
Total Course Enrollments Spring Semester:	89	90	80	42	37
Total Student Credit Hours	248	276	236	148	148
Total Course Enrollments	74	84	59	37	37

2. List number of program graduates by academic year:

Academic Year	2014-2015	2015-2016	2016-2017
Certificates	0	0	1
Associate Degrees	2	2	2

3. Give faculty/course/section information for the past three (3) years for the fall semester only.

Academic Year	2015	2016	2017
Total full-time	1	1	1
faculty			
Total part-time	0	0	0
faculty			
Percentage of student credit hours taught by full-time faculty.	100%	100%	100%

### **Curriculum History**

- List all courses offered by this program.
- Give the date of the first offering for each, if known.
- Indicate how many sections were successfully offered during each of the last six regular semesters (three years).

Course Prefix	Course #	Course Name	Date First Offered
CRT	101	Basic Auto Body	Fall 2015
			Fall 2016
			Fall 2017
CRT	103	Paint & Refinishing Equipment	Fall 2015
			Fall 2016
			Fall 2017
CRT	105	Auto Welding	Fall 2015
			Spring 2017
CRT	106	Restoring Corrosion Protection	Spring 2018
CRT	107	Auto Glass/Restraint Systems	Spring 2018
CRT	110	Repairing Plastic	Spring 2017
CRT	115	Advanced Painting	Fall 2015
		_	Spring 2016
			Spring 2017
			Spring 2018
CRT	120	Identification and Analysis of Damage	Fall 2016
			Fall 2017
			Spring 2018
CRT	121	Replacement of Structural Components	Fall 2016
			Fall 2017
CRT	122	Straightening & Measuring Sys I- Non-	Fall 2015
		Structural Analysis & Damage Repair	Fall 2017
CRT	124	Straightening & Measuring Sys II-	Spring 2016
		Structural Analysis & Damage Repair	
CRT	210	Custom Painting	Spring 2016
			Spring 2017
CRT	211	Restoration	Spring 2016
AUTT	293	T: Intro to Collision Repair	Fall 2015
			Fall 2016

		Fall Semester		Spring Semester			
Academic	Day	Evening	Total	Day	Evening	Total	
Year	Section(s)	Section(s)	Section(s)	Section(s	Section(s)	Section(s)	
2015-2016	4	1	5	3	1	4	
2016-2017	4	1	5	3	1	4	
2017-2018	4	1	5	3	1	4	

# **AWARDED DEGREES/CERTIFICATES - COLLISION REPAIR**

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### **Notice**

The data you are accessing contains information that should not be released to others, for ethical and legal reasons, or both. Student information is specifically protected under the Family Educational Rights and Privacy Act of 1974 (FERPA). The data on the screens is for departmental use only. Please contact the Registrar at 505-277-8900 if you have questions.

Class List		~	9 00000 9 3		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Semester	Course	Section	CRN	Title	Enrollment
Fall 2018	CRT 101	460	38038	Basic Auto Body	0
Fall 2018	<b>CRT 103</b>	460	38039	Paint Refinish Eq	9 0
Fall 2018	<b>CRT 120</b>	400	56786	Id & Analysis Damage	- O
Fall 2018	<b>CRT 121</b>	400	56787	Replace Strucral Com	0
Fall 2018	<b>CRT 122</b>	400	60665	Straight Mea Sys-Non-Str	0
Spring 2018	CRT 106	400 ( <u>csv</u> ) ( <u>xml</u> )	45602	Corrosion Protection	4
Spring 2018	<b>CRT 107</b>	400 ( csy ) ( xml )	45603	Auto Glass Restraint	7
Spring 2018	CRT 115	460 ( <u>csv</u> ) ( <u>xml</u> )	34314	Advanced Painting	13
Spring 2018	CRT 210	460 ( <u>csv</u> ) ( <u>xml</u> )	34315	Custom Painting	13
Fall 2017	CRT 101	460 ( <u>csv</u> ) ( <u>xml</u> )	38038	Basic Auto Body	12
Fail 2017	CRT 103	460 ( <u>csy</u> ) ( <u>xml</u> )	38039	Paint Refinish Eq	12
Fall 2017	CRT 120	400 ( <u>csv</u> ) ( <u>xmi</u> )	56786	Id & Analysis Damage	5
Fall 2017	CRT 121	400 ( csy ) ( xml )	56787	Replace Strucral Com	7
Fall 2017	CRT 122	400 ( <u>csv</u> ) ( <u>xml</u> )	60665	Straight Mea Sys-Non-Str	1
Spring 2017	CRT 105	400 ( <u>csv</u> ) ( <u>xml</u> )	42945	Auto Welding	5
Spring 2017	CRT 110	400 ( csy ) ( xml )	42946	Repairing Plastics	10
Spring 2017	CRT 115	460 ( <u>csv</u> ) ( <u>xml</u> )	34314	Advanced Painting	11
Spring 2017	CRT 210	460 ( <u>csv</u> ) ( <u>xml</u> )	34315	Custom Painting	11
Fall 2016	<b>AUTT 293</b>	460 ( csy ) ( xml )	46927	T: Intro to Collision Repair	9
Fall 2016	CRT 101	460 ( csv ) ( xml )	38038	Basic Auto Body	9
Fali 2016	CRT 103	460 ( csy ) ( xml )	38039	Paint Refinish Eq	9
Fall 2016	CRT 120	400 ( csy ) ( xml )	56786	Id & Analysis Damage	9
Fall 2016	CRT 121	400 ( csv ) ( xmi )	56787	Replace Strucral Com	6
Summer 2016	CRT 101	400 ( csy ) ( xml )	25814	Basic Auto Body	6
Spring 2016	CRT 115	460 ( csy ) ( xml )	28164	Advanced Painting	21
Spring 2016	<b>CRT 124</b>	400 ( csy ) ( xml )	55763	Straight Mea Sys-Struct	7
Spring 2016	CRT 210	460 ( csy ) ( xml )	28165	Custom Painting	21
Spring 2016	CRT 211 *	400 ( csy ) ( xml )	55764	Restoration	10
Fall 2015	<b>AUTT 293</b>	460 ( csy ) ( xml )		T: Intro to Collision Repair	19
Fall 2015	CRT 101	460 ( csy ) ( xml )		Basic Auto Body	19
Fall 2015	CRT 103	460 ( csy ) ( xml )	411	Paint Refinish Eq	19
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Fall 2015	CRT 105	400 ( <u>csv</u> ) ( <u>xml</u> ) 53616	Auto Welding	17
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Summer 2015		401 ( <u>csv</u> ) ( <u>xml</u> ) 25137	Corrosion Protection	5
Spring 2015		· · · · · · · · · · · · · · · · · · ·		20
Spring 2015		400 ( <u>csy</u> ) ( <u>xml</u> ) 52231	Auto Glass Restraint	12
Spring 2015		400 ( <u>csv</u> ) ( <u>xml</u> ) 52232	Repairing Plastics	12
Spring 2015	CRT 115	460 ( <u>csv</u> ) ( <u>xmi</u> ) 28164	Advanced Painting	20
Spring 2015	CRT 210	460 ( <u>csy</u> ) ( <u>xml</u> ) 28165	Custom Painting	20
Fall 2014	AUTT 293	460 ( <u>csv</u> ) ( <u>xml</u> ) 46927	T: Intro to Collision Repair	20
Fail 2014	CRT 101	400 ( <u>csv</u> ) ( <u>xml</u> ) 50666	Basic Auto Body	13
Fall 2014	CRT 101	460 ( <u>csv</u> ) ( <u>xml</u> ) 38038	Basic Auto Body	20
Faii 2014	CRT 103	400 ( csy ) ( xml ) 50667	Paint Refinish Eq	17
Fall 2014	CRT 103	460 ( <u>csv</u> ) ( <u>xml</u> ) 38039	Paint Refinish Eq	20
Spring 2014	<b>AUTT 293</b>	460 ( <u>csv</u> ) ( <u>xml</u> ) 49350	T: Intro to Auto CRT	16
Spring 2014	CRT 115	460 ( <u>csy</u> ) ( <u>xml</u> ) 28164	Advanced Painting	17
Spring 2014	CRT 122	400 ( <u>csv</u> ) ( <u>xml</u> ) 49357	Straight Mea Sys-Non-Str	12
Spring 2014		400 ( <u>csy</u> ) ( <u>xml</u> ) 49358	Straight Mea Sys-Struct	12
Spring 2014	CRT 210	460 ( <u>csv</u> ) ( <u>xml</u> ) 28165	Custom Painting	17
Fall 2013	<b>AUTT 293</b>	460 ( <u>csy</u> ) ( <u>xml</u> ) 46927	T: Intro to Collision Repair	17
Fall 2013	CRT 101	460 ( <u>csy</u> ) ( <u>xml</u> ) 38038	Basic Auto Body	18
Fall 2013	CRT 103	460 ( <u>csv</u> ) ( <u>xml</u> ) 38039	Paint Refinish Eq	18
Fall 2013	CRT 120	400 ( <u>csv</u> ) ( <u>xml</u> ) 46929	Id & Analysis Damage	20
Fall 2013	CRT 121	400 ( <u>csy</u> ) ( <u>xml</u> ) 46930	Replace Strucral Com	16
Summer 2013	CRT 211	400 ( <u>csy</u> ) ( <u>xml</u> ) 22382	Restoration	8
Spring 2013	AUTT 293	461 ( <u>csv</u> ) ( <u>xml</u> ) 48475	T:Intro to Auto CRT	18
Spring 2013	CRT 105	400 ( <u>csv</u> ) ( <u>xml</u> ) 46486	Auto Welding	21
Spring 2013	CRT 106	400 ( <u>csv</u> ) ( <u>xml</u> ) 46487	<b>Corrosion Protection</b>	22
Spring 2013	CRT 115	460 ( <u>csy</u> ) ( <u>xml</u> ) 28164	Advanced Painting	· 18
Spring 2013	CRT 210	460 ( <u>csv</u> ) ( <u>xml</u> ) 28165	Custom Painting	18
Fall 2012	CRT 101	460 ( <u>csv</u> ) ( <u>xml</u> ) 38038	Basic Auto Body	18
Fall 2012	CRT 101	400 ( <u>csv</u> ) ( <u>xml</u> ) 44120	Basic Auto Body	20
Fall 2012	CRT 103	460 ( <u>csy</u> ) ( <u>xml</u> ) 38039	Paint Refinish Eq	18
Fall 2012	CRT 103	400 ( <u>csv</u> ) ( <u>xml</u> ) 44121	Paint Refinish Eq	20
Spring 2012	CRT 107	400 ( <u>csv</u> ) ( <u>xml</u> ) 43953	Auto Glass Restraint	20
Spring 2012	CRT 110	400 ( <u>csy</u> ) ( <u>xml</u> ) 43954	Repairing Plastics	16
Spring 2012	CRT 115	460 ( <u>csy</u> ) ( <u>xml</u> ) 28164	Advanced Painting	17
Spring 2012	CRT 210	460 ( <u>csv</u> ) ( <u>xml</u> ) 28165	Custom Painting	17
Fall 2011	CRT 101	460 ( <u>csv</u> ) ( <u>xml</u> ) 38038	Basic Auto Body	22
Fall 2011	CRT 103	460 ( <u>csv</u> ) ( <u>xml</u> ) 38039	Paint Refinish Eq	21
Fall 2011	<b>CRT 122</b>	400 ( <u>csy</u> ) ( <u>xml</u> ) 41441	Straight Mea Sys-Non-Str	20
Fall 2011	CRT 124	400 ( <u>csy</u> ) ( <u>xmi</u> ) 41442	Straight Mea Sys-Struct	20
Summer 2011	CRT 120	400 ( <u>csv</u> ) ( <u>xml</u> ) 20520	Id & Analysis Damage	6
Summer 2011	CRT 121	400 ( <u>csv</u> ) ( <u>xmi</u> ) 20521	Replace Strucral Com	4
Spring 2011	CRT 105	400 ( <u>csv</u> ) ( <u>xml</u> ) 42627	Auto Welding	22
Spring 2011	CRT 115	460 ( <u>csv</u> ) ( <u>xml</u> ) 28164	Advanced Painting	16
Spring 2011	CRT 210	460 ( csv ) ( xml ) 28165	Custom Painting	16
Spring 2011	CRT 211	400 ( csy ) ( xml ) 41441	Restoration	21
Fall 2010	CRT 101	460 ( csy ) ( xml ) 38038	Basic Auto Body	14
Fall 2010	CRT 103	460 ( csy ) ( xml ) 38039	Paint Refinish Eq	14
Fall 2010	CRT 106	400 ( <u>csv</u> ) ( <u>xml</u> ) 38041	Corrosion Protection	20
Fall 2010	CRT 110	400 ( csv ) ( xml ) 38040	Repairing Plastics	22
Summer 2010	CRT 122	400 ( <u>csv</u> ) ( <u>xmi</u> ) 19262	Straight Mea Sys-Non-Str	11
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### **Document 3**

Copy of latest Assessment Plan

### Template Academic Programs Assessment Plan The University of New Mexico

### A. College, Department and Date

1. College: University of New Mexico – Gallup Campus

2. Department: Applied Technology - Collision Repair Program

3. Date: February 8, 2018

### B. Academic Program of Study\*

Certificate - Collision Repair Technology

### C. Contact Person(s) for the Assessment Plan

Floyd C. Burnham, email: fcburnha@unm.edu

### D. Broad Program Goals & Measurable Student Learning Outcomes (SLOs)

### 1. Broad Program Learning Goal(s) for this Degree/Certificate Program

- A. Entry level training for Auto Body Repair trades.
- B. Career advancement for entry level to Collision Repair and Refinishing.
- C. In-service training for industry innovations such as Collision Repair and Refinishing.
- D. NATEF/ASE standards, update and review.

### 2. List of Student Learning Outcomes (SLOs) for this Degree/Certificate Program

- A.1. Students demonstrate cognitive knowledge and practical applications of auto safety skills.
- B.1. Demonstrate theoretical knowledge of Collision Repair, terms, materials, tools and methods.
- C.1. Demonstrate mastery of Collision Repair skills or competency levels through stimulated laboratory assignments, on-the-job live projects, or work assignment.
- D.1. Meet the standards of approved accrediting entities, i.e. NATEF/ASE/I-CAR.

Academic Program of Study is defined as an approved course of study leading to a certificate or degree reflected on a UNM transcript. A graduate-level program of study typically includes a capstone experience (e.g. thesis, dissertation, professional paper or project, comprehensive exam, etc.).

### E. Assessment of Student Learning Plan

All programs are expected to measure student learning outcomes annually and to measure all program student learning outcomes at least once over one, two, or three assessment cycles. Each unit determines which of its student learning outcomes to assess during an assessment cycle. Describe the program's one, two, or three year plan for assessing program-level student learning outcomes by addressing 1 thru 4 below.

### 1. Student Learning Outcomes Matrix

Relationship to UNM Student Learning Goals (insert the program's SLOs and check all that apply):

University of New	University of New Mexico Student Learning Goals				
Program SLOs	Knowledge	Skills	Responsibility	Program SLO is conceptually different from university goals.	
A.1. Student demonstrates cognitive and practical safety skills.	x	X	X		
B.1. Demonstrates theoretical knowledge of Collision Repair, term codes, materials, and tools.	x	Х			
C.1. Demonstrates mastery of Collision Repair skills or competency levels through simulated laboratory assignments, on the job live work projects, or other work assignments.	х	Х			
D.1. Meets the standards of accrediting entities; NATEF, ASE and I-CAR.	Х	X	Х		

### 2. How will learning outcomes be assessed? (Address Ai thru Aiii individually or complete the table below)

### A. What:

- i. For each SLO, briefly describe the means of assessment, i.e., what samples of evidence of learning will be gathered or measures used to assess students' accomplishment of the learning outcomes in the three- year plan?
- ii. Indicate whether each measure is direct or indirect. If you are unsure, then write "Unsure of measurement type." There is an expectation that most of the assessment methods/measures will be direct measures of student learning with at least 1-2 indirect assessment methods/measures.

iii. Briefly describe the criteria for success related to each direct or indirect means of assessment. What is the program's performance target (e.g., is an "acceptable or better" performance by 60% of students on a given measure acceptable to the program faculty)? If scoring rubrics are used to define qualitative criteria and measure performance, attach them to the plan as they are available.

Assessing Student Learning Goals					
Program SLOs	Assessment Measures	Direct or Indirect	Criteria for Success		
A.1. Student demonstrates cognitive and practical safety skills.	Written type testing plus hands on demonstration of cognitive ability.	Direct & In- Direct	75% or higher on written test. Pass/Fail on lab demonstrations.		
B.1. Student demonstrates theoretical knowledge of Collision Repair terms, codes, materials, tools and methods.		Direct	75% on written tests. Pass/Fail on lab demonstrations		
C.1. Demonstrate mastery of Collision Repair skills on the job performance.	Observed lab performance. Pass/Fail grade.	In-Direct	Pass/Fail grade on assignment sheet.		
D.1. Meet accrediting entity standards.	Tested at levels according to entity guidelines.	In-Direct	75% on tests.		

### B. <u>Who</u>:

The A1, B1, C1, and D1 SLOs will be evaluated for all students enrolled the Collision Repair Program courses offered in the fall and spring semesters. Inclusion of all students in the assessment should result in a standard sample. Which would about 20% of a course's student population.

### 3. When will learning outcomes be assessed? When and in what forum will the results of the assessment be discussed?

[Briefly describe the timeframe over which your unit will conduct the assessment of learning outcomes selected for the one, two, or three year plan and/or complete the following table. For example, provide a layout of the semesters or years (e.g., 2014-2015, 2014-2016, and 2014-2017), list which outcomes will be assessed, and which semester/year the results will be discussed and used to improve student learning (e.g., discussed with program faculty, interdepartmental faculty, advisory boards, students, etc.)

Program SLOs	Year/Semester Year
	Year 1, Summer 20??
A.1. Student demonstrates cognitive and practical safety skills	Year 1, Fall 2017
B.1. Demonstrates theoretical knowledge of Collision Repair, term codes, materials, and tools.	Year 1, Spring 2018
	Year 2, Summer 20??
C.1. Demonstrates mastery of Collision Repair skills or competency levels through simulated laboratory	Year 2, Fall 2018

assignments, on the job live work projects, or other work assignments.	
D.1. Meets the standards of accrediting entities; NATEF, ASE and I-CAR.	Year 2, Spring 2019
	Year 3, Summer 20??
	Year 3, Fall 20??
	Year 3, Spring 20??

### 4. What is the unit's process to analyze/interpret assessment data and use results to improve student learning?

### Briefly describe:

1. Who will participate in the assessment process (the gathering of evidence, the analysis/interpretation, recommendations).

The Collision Repair Coordinator will start the activity and make faculty assignments and set who will participate in the assessment process (gathering of evidence, the analysis/interpretation, and recommendations).

- 2. What is the process for considering the implications of assessment/data for change:
  - a. to assessment mechanisms themselves,
  - b. to curriculum design,
  - c. to pedagogy

The Coordinator/Faculty will meet and make decisions. The process will coordinate and use guidelines of the accrediting entry as needed.

3. How, when, and to whom will recommendations be communicated?

After the Program Faculty Assessment, results will be routed through the Dean's office for final review and approval, or edit.

## UNM Academic Programs Assessment Report Template Record for Assessment of Student Learning Outcomes The University of New Mexico

	Degree Level	(Certificate, Associate, Bachelors, Master's, etc.)	Certificate
TOTAL OF THE PROPERTY OF THE P	Tine of Degree of Certificate Program		Certificate in Collision Repair Technology

Business & Applied Technology Division - Collision Repair Name of Academic Department (if relevant):

University of New Mexico - Gallup Campus Name of College/School/Branch:

Academic Year/Assessment Period: 2017/2018

Floyd C. Burnham (fcburnha@unm.edu) Submitted By (include email address):

Date Submitted to College/School/Branch for Review:

Date Reviewed by College Assessment and Review Committee (CARC) or the equivalent:

State whether ALL of the program's student learning outcomes (SLOs) are targeted/assessed/measured within one year, two years, OR three years:

If the program's SLO's are targeted/assessed/measured within two years or three years, please state whether this assessment record focuses on SLOs from the first year, second year, or third year:

Describe the actions and/or improvements that were implemented during the previous reporting period (provide relevant evidence):

Part II: Assessment Report

## Program Goal #1:

Recommendations for Improvement/ Changes*	Offer more evening courses and market to local business to promote professional development. Also, to improve the percentage of the certificate students into the AAS Degree.		
Data Analysis*	Work with the other 20% to enhance their knowledge of subject matter.		
Data Results*	80% of class will give the needed results.		
Performance Benchmark	75% or better		
Assessment Measures incl. Measure Type (Direct or Indirect)*	Direct and In-Direct; written testing plus hands on demonstration of cognitive ability.		
UNIM Student Learning Goals (Knowledge, Skills, and/or Responsibility)	Knowledge Skills Responsibility		
Student Learning Outcomes	Student demonstrate cognitive and practical safety skills		

Based on the data results and analysis provided for the student learning outcome(s) listed in the table above, for EACH student learning outcome, please state if the outcome was met, partially met, or not met. Briefly explain why:

### Template Academic Programs Assessment Plan The University of New Mexico

### A. College, Department and Date

1. College: Uni

University of New Mexico - Gallup Campus

2. Department:

Applied Technology - Collision Repair Program

3. Date:

February 8, 2018

### B. Academic Program of Study\*

Associate of Applied Science - Collision Repair Technology

### C. Contact Person(s) for the Assessment Plan

Floyd C. Burnham, email: fcburnha@unm.edu

### D. <u>Broad Program Goals & Measurable Student Learning Outcomes (SLOs)</u> [List below:]

### 1. Broad Program Learning Goal(s) for this Degree/Certificate Program

- A. Entry level training for Auto Body Repair trades.
- B. Career advancement for entry level to Collision Repair and Refinishing.
- C. In-service training for industry innovations such as Collision Repair and Refinishing.
- D. NATEF/ASE standards, update and review.

### 2. List of Student Learning Outcomes (SLOs) for this Degree/Certificate Program

- A.1. Students demonstrate cognitive knowledge and practical applications of auto safety skills.
- B.1. Demonstrate theoretical knowledge of Collision Repair, terms, materials, tools and methods.
- C.1. Demonstrate mastery of Collision Repair skills or competency levels through stimulated laboratory assignments, on-the-job live projects, or work assignment.
- D.1. Meet the standards of approved accrediting entities, i.e. NATEF/ASE/I-CAR.

Adapted from Kansas State University Office of Assessment

<sup>\*</sup> Academic Program of Study is defined as an approved course of study leading to a certificate or degree reflected on a UNM transcript. A graduate-level program of study typically includes a capstone experience (e.g. thesis, dissertation, professional paper or project, comprehensive exam, etc.).

### E. Assessment of Student Learning Plan

All programs are expected to measure student learning outcomes annually and to measure all program student learning outcomes at least once over one, two, or three assessment cycles. Each unit determines which of its student learning outcomes to assess during an assessment cycle. Describe the program's one, two, or three year plan for assessing program-level student learning outcomes by addressing 1 thru 4 below.

### 1. Student Learning Outcomes Matrix

[Insert all student learning outcomes that will be assessed by the unit over the next one, two, or three assessment cycles.

Relationship to UNM Student Learning Goals (insert the program's SLOs and check all that apply):

University of New Mexico Student Learning Goals				
Program SLOs	Knowledge	Skills	Responsibility	Program SLO is conceptually different from university goals.
A.1. Student demonstrates cognitive and practical safety skills.	X	X	X	
B.1. Demonstrates theoretical knowledge of Collision Repair, term codes, materials, and tools.	х	Х		
C.1. Demonstrates mastery of Collision Repair skills or competency levels through simulated laboratory assignments, on the job live work projects, or other work assignments.	Х	X		
D.1. Meets the standards of accrediting entities; NATEF, ASE and I-CAR.	х	х	х	

### 2. How will learning outcomes be assessed? (Address Ai thru Aiii individually or complete the table below)

### A. What:

- i. For each SLO, briefly describe the means of assessment, i.e., what samples of evidence of learning will be gathered or measures used to assess students' accomplishment of the learning outcomes in the three- year plan?
- ii. Indicate whether each measure is direct or indirect. If you are unsure, then write "Unsure of measurement type." There is an expectation that most of the assessment methods/measures will be direct measures of student learning with at least 1-2 indirect assessment methods/measures.
- iii. Briefly describe the criteria for success related to each direct or indirect means of assessment. What is the program's performance target (e.g., is an "acceptable or

better" performance by 60% of students on a given measure acceptable to the program faculty)? If scoring rubrics are used to define qualitative criteria and measure performance, attach them to the plan as they are available.

Assessing Student Learning Goals				
Program SLOs	Assessment Measures	Direct or Indirect	Criteria for Success	
A.1. Student demonstrates cognitive and practical safety skills.	Written type testing plus hands on demonstration of cognitive ability.	Direct & In-Direct	75% or higher on written test. Pass/Fail on lab demonstrations.	
B.1. Student demonstrates theoretical knowledge of Collision Repair terms, codes, materials, tools and methods.		Direct	75% on written tests. Pass/Fail on lab demonstrations	
C.1. Demonstrate mastery of Collision Repair skills on the job performance.	Observed lab performance. Pass/Fail grade.	In-Direct	Pass/Fail grade on assignment sheet.	
D.1. Meet accrediting entity standards.	Tested at levels according to entity guidelines.	In-Direct	75% on tests.	

### B. Who:

The A1, B1, C1, and D1 SLOs will be evaluated for all students enrolled the Collision Repair Program courses offered in the fall and spring semesters. Inclusion of all students in the assessment should result in a standard sample. Which would about 20% of a course's student population.

### 3. When will learning outcomes be assessed? When and in what forum will the results of the assessment be discussed?

[Briefly describe the timeframe over which your unit will conduct the assessment of learning outcomes selected for the one, two, or three year plan and/or complete the following table. For example, provide a layout of the semesters or years (e.g., 2014-2015, 2014-2016, and 2014-2017), list which outcomes will be assessed, and which semester/year the results will be discussed and used to improve student learning (e.g., discussed with program faculty, interdepartmental faculty, advisory boards, students, etc.)]

Program SLOs	Year/Semester Year
	Year 1, Summer 20??
A.1. Student demonstrates cognitive and practical safety skills	Year 1, Fall 2017
B.1. Demonstrates theoretical knowledge of Collision Repair, term codes, materials, and tools.	Year 1, Spring 2018
	Year 2, Summer 20??
C.1. Demonstrates mastery of Collision Repair skills or competency levels through simulated laboratory	Year 2, Fall 2018

assignments, on the job live work projects, or other work assignments.	
D.1. Meets the standards of accrediting entities; NATEF, ASE and I-CAR.	Year 2, Spring 2019
	Year 3, Summer 20??
	Year 3, Fall 20??
	Year 3, Spring 20??

### 4. What is the unit's process to analyze/interpret assessment data and use results to improve student learning?

Briefly describe:

1. Who will participate in the assessment process (the gathering of evidence, the analysis/interpretation, recommendations).

The Collision Repair Coordinator will start the activity and make faculty assignments and set who will participate in the assessment process (gathering of evidence, the analysis/interpretation, and recommendations).

- 2. What is the process for considering the implications of assessment/data for change:
  - a. to assessment mechanisms themselves,
  - b. to curriculum design,
  - c. to pedagogy

The Coordinator/Faculty will meet and make decisions. The process will coordinate and use guidelines of the accrediting entry as needed.

3. How, when, and to whom will recommendations be communicated?

After the Program Faculty Assessment, results will be routed through the Dean's office for final review and approval, or edit.

## UNM Academic Programs Assessment Report Template Record for Assessment of Student Learning Outcomes The University of New Mexico

(Certificate, Associate, Bachelors, Master's, etc.)	Associate
Title of Degree or Certificate Program	Associate of Applied Science in Collision Repair Technology

Business & Applied Technology Division - Collision Repair Name of Academic Department (if relevant):

University of New Mexico - Gallup Campus Name of College/School/Branch:

Academic Year/Assessment Period: 2017/2018

Floyd C. Burnham (fcburnha@unm.edu) Submitted By (include email address):

Date Submitted to College/School/Branch for Review:

Date Reviewed by College Assessment and Review Committee (CARC) or the equivalent:

State whether ALL of the program's student learning outcomes (SLOs) are targeted/assessed/measured within one year, two years, OR three years:

If the program's SLO's are targeted/assessed/measured within two years or three years, please state whether this assessment record focuses on SLOs from the first year, second year, or third year:

Describe the actions and/or improvements that were implemented during the previous reporting period (provide relevant evidence):

## Part II: Assessment Report

## Program Goal #1:

Recommendations for Improvement/ Changes*	To conduct a survey to determine if the AAS Degree is needed/required for local employment.	
Data Analysis*	Work with the other 20% to enhance their knowledge of subject matter.	
Data Results*	80% of class will give the needed results.	
Performance Benchmark	75% or better	
Assessment Measures incl. Measure Type (Direct or Indirect)*	Direct and In-Direct; written testing plus hands on demonstration of cognitive ability.	
UNM Student Learning Goals (Knowledge, Skills, and/or Responsibility)	Knowledge Skills Responsibility	
Student Learning Outcomes	Student demonstrate cognitive and practical safety skills	

Based on the data results and analysis provided for the student learning outcome(s) listed in the table above, for EACH student learning outcome, please state if the outcome was met, partially met, or not met. Briefly explain why: D

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### **Document 4**

• List of Instructors with qualifications.

### **COLLISION REPAIR TECHNOLOGY**

### Floyd C. Burnham

-Automotive Service Excellence (ASE) Certifications (Collision Repair Technician)

Painting and Refinishing Non-Structural Analysis & Damage Repair Structural Analysis & Damage Repair

### FLOYD CLIFFORD BURNHAM PO BOX 220, GAMERCO, NM 87312 PHONE 505-722-2165

### FEBRUARY 20, 2012

### **OBJECTIVE**

To obtain a position that would allow me to teach in the fields of Automotive Mechanics and Body Work

### SKILLS

Automotive Body Repair, Automotive Mechanic, Paint and Refinishing,

Heavy Equipment Mechanic and Operator, including diesel.

Installing Satellite dishes and cables.

Apprentice Electrician.

Teaching automotive mechanic, refinishing and body work.

### **EDUCATION**

lyear Automobile Mechanics in High School, which included: Tune-ups, Carburetor overhaul, Transmission rebuilding, Front-end alignment, an Engine rebuilding.

Attended Denver Automotive and Diesel College graduated in 1970: Major courses: Sheet metal repair, Frame straightening and repair, Refinishing, Painting and Estimating.

### **EXPERIENCE**

Gurley's Motors March 1971 to May 1979: Body man and painter full time; part-time wrecker driver, part time office clerk.

Gurley's Motors June 1984 to June 1992:

Body man and painter full time, fifteen months in office doing estimates and working with the public, Attended I-CAR and completed courses to date. ASE Certified, completed courses PPG Technician Training on Refinishing.

44Years of auto body work that included: Paint and refinishing, replacement of body parts, repair of car and truck body, replace of auto glass. Replacement of Engine parts, water and fuel pumps, carburetors. The straightening or replacement of car and truck frames, Repairs of electrical systems, Replacement of transmissions and lines, Rear ends and their parts. Brakes and brake lines, fuel lines and tanks.

Carbon Coal May 1979 to June 1983: Started as a laborer and was promoted to a Class A Mechanic, Serviced and maintained heavy equipment. Repair damaged equipment and repainted. Four years of diesel mechanics, which included: Hydraulic system, Electrical system, Rebuilding of Transmissions and rebuilding of engines.

Zanardi's TV and Stereo Service June 1983 to 1984, installed satellite dishes and run cable.

Knight Electric, September 1992 to September 1993, Apprentice electrician.

Gallup Community College, September 1993 to June 1994, assistant automotive mechanics and automotive body repair teacher.

Summer of 1994, Assistant CDL instructor.

1994 to date: Automotive Mechanics Teacher

103: Engine Repair.

113: Automatic Transmission overhaul.

203: Hi-performance Engine rebuilding.

110: Drive train, which includes transmission, drive line and differential, instructing all courses in auto body 120 through 285.

The five years as a teacher of automotive mechanics, Automotivebody repair, paint and refinishing at UNM, I found very rewarding. I enjoy the students and I feel I can be an asset to UNM and the students.

Awards and memberships: I-Car award certificate, and award from the Denver Automotive and Diesel College for graduation in the top of the class. A&E, PPG Refinish Training

Personal: Interests include: Bowling, Hiking, Reading and Sports (watching)

References: Available upon request.

Floyd C. Burnham



## ACTIONOTIVE SERVICE SERVICE SERVICE

RECYD C BURNHAM



# COLLISION REPAIR TECHNICIAN

ANTERS OR PERCONSTRATED ACTUBIVE REPAIR

NON-STRUCTURAL ANALYSIS & DAMAGE REPAIR

STRUCTURAL ANALYSIS & DAMAGE REPAIR

UNIE

IVEN THIS 26TH DAY OF JANUARY 2018. AT LESBURG. VIRGINIA

ASE-1128-9900

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Francis To Floyd Burnham	In Mesogration of Successfully Completing an I-CAR Online Training Program and Post-Tr Electronic Stability Contro Systems Overview (ESC01)	gram Completed 06/3/20	A SA	
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		resident restrictions and transactive gap.	Enter Vision	



### Certificate of Course Completion Floyd Burnham Student Name:

Cromax Chromasystem Painter Certification JNM Gallup Campus - Aug. 10, 2015

Course Attended:

lichael Skillmar rainor:

THIS CERTIFIES THAT

## Floyd C. Burnfam

has completed Level Two of the Certified Refinish Technician Training Progra



PDd

This PPG Cartified Refinish Training entities the besein named to partitipate in the PPG Paint Performance Gearmides Program, when refinishing vehicles in a PPG Certified Collision Repair Center. This cartification is valid for a period of two years from the cartified training date and expires on

Andy Ganderon

PPG Cartified Refinish Instruction

PPG-Director of Certified Refinish Training

# CERTIFIED REFINISH TECHNICIAN

This certificate recognizes that

## Floyd C. Burnhan

36RT LEVEL ONE

has completed PPG Certified Refinish Techni

May 26, 1994





decousify the second se

This is to certify that

CLIFFORD BURNHAM

has satisfactority completed training in

ANTI-LOCK BRAKE SYSTEMS

Certified this date 6 23 94

C. L. SAUMER

STANDARD MOTOR PRODUCTS, INC. / LONG ISLAND CITY, NY TILDI

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This is to certify that

has completed the following

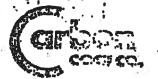
Service Training Course

ENGINE TROUBLESHOOTING - 3408 "CAT" ENG

FUEL FLOW TIME, INSTALL & INTERPRET BOOST KIT RESULTS PI FUEL PUMP TO ENGINE ADDUST & INSTALL PHOTOT USE AIR FLOW METER.

DECEMBER 10 1982

INSTRICTOR



FIELD OFFICES

P.O. Sox 481 Mentmore, New Mexico 87319

April 13, 1994

Dr. John Phillips, President University of New Mexico Gallup Campus 200 College Road Gallup, New Mexico 87301

. Dear Dr. Phillips:

It is with pleasure I write this letter for Floyd Clifford Burnham. Clifford worked for Carbon Coal Company for four years. He always did a great job and was an asset to our company. After our mine closed he worked for Gurley Motors and more recently the U.N.M. Gallup.

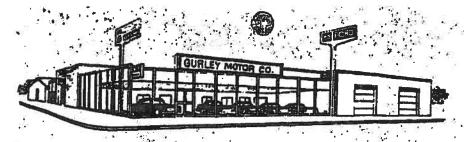
As you now know, Clifford Burnham is a very conscientious, reliable and trustworthy person, and has the highest regard for the education of others. I would highly recommend Clifford for any job or additional responsibilities. He has always liked a challenge. If you have any questions please call.

P.S. Thanks again its great having your program at Carbon Coal Company.

Sincerely

Frank J. Mraz

Manager of Operations





.701 WEST COAL - P.O. BOX 1377 • GALLUP, NEW MEXICO 87305 • (505) 722-6621 • FAX (505) 722-3105

April 12, 1994

University of New Mexico Callup Branch Gallup, New Mexico 87301

Attention: Dr. John Phillips

Dear Dr. Phillips:

I have been asked to write a letter of recommendation for Floyd C. Burnham for employment by the University of New Mexico Gallup Branch.

Cliff was employed by Gurley Motor Company from March 5, 1979 to October 30, 1979, and again from June 21, 1984 to June 1, 1992. His responsibilities included general auto body repairs and paint. We found Cliff to be a very reliable and hard working employee.

Should you need any further information from me, please do not hesitate to contact me.

Yours very truly, GURLEY MOTOR COMPANY

P. J. GURLES
President

PJG/mf

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### **Document 5**

• Advisement summary identifying any concerns



### February 14, 2018

Re: Advisement Summary Report; Associaté of Applied Science in Collision Repair Technology (61 credits) Catalog 2015-2017

Reviewed and Discussed by members of the Advisement Team (David Stiger and Michelle Lee)

### Positives:

 Regionally UNM Gallup is the only college institution that has this degree program for those students who don't have the means to travel or transition to technical schools that offer this program.

### Concerns:

- Rotation of courses offered in a given semester should be announced in advance to allow for creation of accurate education plans.
- Many students request clarification on job prospects in this field and whether this is a
  field that they can find readily available employment upon graduating.
- Also students would like to know if there will be any "industry certifications" that might be associated with this program.
- Has the techniques and processes of the program evolved with the needs of the industry and are these courses applicable and up to date with modern standards.
  - o Are there course topics that may need to be added to compensate for this?

### Catalog Structure:

- English 110 should replace English 119, which is no longer offered.
- CJ 130 should also be considered to be an acceptable course along with CJ 221. CJ 130 is a transferable core course if the student should decide to pursue another degree.
- The catalog lists 8 cr. of Electives and lists some options but do not list CRT courses. This
  means, lobotrax will not recognize CRT 110 (Plastics Repair), 210 (Custom Painting), 211
  (Restoration) as acceptable courses. Please add these courses and any other advanced
  CRT course as options so exception and substitution requests do not have to be
  initiated.
- Potentially create a practicum course (CRT 295) for 3-9 credits to assist those students
  who might not have any options for a given semester. Due to courses needed not being
  offered in a particular semester, or courses offered have already been completed. This
  course could give the students an opportunity to advance on their knowledge or
  enhance their skills on a learned topic.

### Certificate in Collision Repair Technology

The Collision Repair Technology Certificate is designed for the student who wishes to acquire the knowledge and develop the skills necessary to meet the entry-level employment standards as an automotive technician, service writer, painter, re-finisher, parts/sales, or component re-builder.

Please consult with your advisor for current transferability information.

Area	i i	Semester	Grade	Credits
Writing and Sp ENGL 119*	neaking: (3 credits) Technical Communications			3
Business Mans IT 101 DRFT	gement & Technology: (3 credits)  Computer Fundamentals OR  115 AutoCAD Level I			3
Mathematics: ( MATH 115	3 credits) Technical Math			3
COLLISION F CRT 101 CRT 103 CRT 105 CRT 106 CRT 107	Basic Auto Body Paint & Refinishing Equipment Auto Welding Restoring Corrosion Protection Auto Glass/Restraint Systems			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

**Approved Electives (4):** 

Select two or more courses, equivalent to 4 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each); AUTT 167 or 230 (3cr/hrs each); AUTT 295 (3-9cr/hrs); WLDT 104, 105, 107, 108, 109, 141, 251 (4cr/hrs each); ARTS 106, 205, 207

SUGGESTED COURSE SEQUENCING: Recommended Course Sequence for Full-time Students (Part-time Students should see an Academic Advisor to customize their educational plan.)

Term 1 - 14cr/hrs	<b>Term 2 – 19cr/hrs</b>
IT 101 - 3	ENGL 119 - 3
MATH 115-3	CRT 105 - 4
CRT 101 - 4	CRT 106-4
CRT 103-4	CRT 107 - 4
	CRT Elective - 4

Total Required: (33 credits)

FOR ADVISEMENT: Contact the Advisement Center at (505) 863-7706.

### Associate of Applied Science in Collision Repair Technology

The Associate of Applied Science in Collision Repair Technology Program will help students become Collision Repair Technicians. Furthermore, they will be experienced with painting and refinishing. Collision Repair Technician training will enable students to become familiar with parts and sales, along with service writing.

Please consult with your advisor for current transferability information.

Writing and Speaking: (6 credits)	Area		Semester	Grade	Credits
MATH: (3 credits)  MATH: (3 credits)  MATH: 115 Technical Math 3  Behavioral Science/Social Sciences: (3 credits)  PSY 211 Applied Psychology 3  Arts/Humanities/Social Sciences: (6 credits)  Select two courses/seach course is 3cr/hrs - AMST 185 or 186; ANTH 101 or 130; ARCH 121; ARTH 101, 201, or 202; CJ 130; ECON 105 or 106; GEOG 102; HIST 101, 102, 161, or 162; LING 101; MUS 139; PHIL 101, 156, 201, or 202; POLS 110, 200, 220, or 240; PSY 105; SOC 101  COLLISION REPAIR TECHNOLOGY CORE: (35 credits)  CRT 101 Basic Auto Body  CRT 103 Paint & Refinishing Equipment 4  CRT 105 Auto Welding 4  CRT 106 Restoring Corrosion Protection 4  CRT 107 Auto Glass/Restraint Systems 4  CRT 120 Identification & Analysis-Damage 4  CRT 121 Straightening & Measuring System 4  CRT 122 Straightening & Measuring Systems II 1  TI 101 Computer Fundamentals 3  Approved Electives: (8 credits) AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hrs each) AUTT 167*, or 230* 50cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hrs each)	Writing and				
MATH: (3 credits)  MATH: (3 credits)  MATH 115 Technical Math 3  Behavioral Science/Social Sciences: (3 credits)  PSY 211 Applied Psychology 3  Arts/Humanities/Social Sciences: (6 credits)  Select two courses/secial Sciences: (6 credits)  Select two courses/secial Sciences: (6 credits)  Social Sciences: (6 credits)  Arts/Humanities/Social Sciences: (6 credits)  Social Sciences: (8 credits)  CJ 130; ECON 103 or 106; GEOG 102; HIST 101, 102, 161, or 162; LING 101; MUS 139; PHIL 101, 156, 201, or 202; POLS 110, 200, 220, or 240; PSY 105; SOC 101  3  COLLISION REPAIR TECHNOLOGY CORE: (35 credits)  CRT 101 Basic Auto Body  CRT 103 Paint & Refinishing Equipment  4  CRT 105 Auto Welding  4  CRT 105 Auto Welding  4  CRT 106 Restoring Corrosion Protection  CRT 107 Auto Glass/Restraint Systems  4  CRT 120 Identification & Analysis-Damage  4  CRT 121 Identification & Analysis-Damage  4  CRT 122 Straightening & Measuring Systems II  Tr 101 Computer Fundamentals  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)	ENGL 119				3
Behavioral Science/Social Sciences: (3 credits)   3	CJ 221	Interpersonal Communication			
Behavioral Science/Social Sciences: (3 credits) PSY 211 Applied Psychology 3  Arts/Humanities/Secial Sciences: (6 credits) Select two courses/each course is 3cr/hrs - AMST 185 or 186; ANTH 101 or 130; ARCH 121; ARTH 101, 201, or 202; CJ 130; ECON 105 or 106; GEOG 102; HIST 101, 102, 161, or 162; LING 101; MUS 139; PHIL 101, 156, 201, or 202; POLS 110, 200, 220, or 240; PSY 105; SOC 101  3  COLLISION REPAIR TECHNOLOGY CORE: (35 credits) CRT 101 Basic Auto Body CRT 103 Paint & Refinishing Equipment 4 CRT 105 Auto Welding CRT 106 Restoring Corrosion Protection CRT 107 Auto Glass/Restraint Systems 4 CRT 120 Identification & Analysis-Damage CRT 120 Identification & Analysis-Damage CRT 122 Straightening & Measuring Systems II TT 101 Computer Fundamentals  Approved Electives: (8 credits) Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each) AUTT 167*, or 230° (3cr/hrs each); AUTT 295° (3-9cr/hrs); WIDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)	MATH: (3	credits)			
PSY 211   Applied Psychology   3	MATH 115	Technical Math	<del>-</del>		3
Arts/Humanities/Secial Sciences: (6 credits)  Select two courses/each course is 3 cer/hrs - AMST 185 or 186; ANTH 101 or 130; ARCH 121; ARTH 101, 201, or 202;  CJ 130; ECON 105 or 106; GEOG 102; HIST 101, 102, 161, or 162; LING 101; MUS 139; PHIL 101, 156, 201, or 202; POLS 110, 200, 220, or 240; PST 105; SOC 101  COLLISION REPAIR TECHNOLOGY CORE: (35 credits)  CRT 101 Basic Auto Body  CRT 103 Paint & Refinishing Equipment  CRT 105 Auto Welding  CRT 106 Restoring Corrosion Protection  CRT 107 Auto Glass/Restraint Systems  CRT 120 Identification & Analysis-Damage  CRT 122 Straightening & Measuring System  CRT 124 Straightening & Measuring Systems II  IT 101 Computer Fundamentals  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WIDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)	Behavioral :	Science/Social Sciences: (3 credits)			
Select two courses/each course is 3cr/hrs - AMST 185 or 186; ANTH 101 or 130; ARCH 121; ARTH 101, 201, or 202; CJ 130; ECON 105 or 106; GEOG 102; HIST 101, 102, 161, or 162; LING 101; MUS 139; PHIL 101, 156, 201, or 202; POLS 110, 200, 220, or 240; PSY 105; SOC 101  COLLISION REPAIR TECHNOLOGY CORE: (35 credits)  CRT 101 Basic Auto Body 4 CRT 103 Paint & Refinishing Equipment 4 CRT 105 Auto Welding 4 CRT 106 Restoring Corrosion Protection 4 CRT 107 Auto Glass/Restraint Systems 4 CRT 120 Identification & Analysis-Damage 4 CRT 122 Straightening & Measuring System 4 CRT 124 Straightening & Measuring Systems II 4 IT 101 Computer Fundamentals 3  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each) AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WIDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)	PSY 211	Applied Psychology			3
COLLISION REPAIR TECHNOLOGY CORE: (35 credits)  CRT 101	Select two co	ourses/each course is 3cr/hrs - AMST 185 o ON 105 or 106; GEOG 102; HIST 101, 102,	r 186; ANTH 101 or 130; ARC 161, or 162; LING 101; MUS	TH 121; ARTH 10 139; PHIL 101,	1, 201, or 202; 156, 201, or 202; POLS 110,
COLLISION REPAIR TECHNOLOGY CORE: (35 credits)  CRT 101					3
CRT 101					3
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CRT 103	COLLEGIO	Proje Auto Pode	creats)		
CRT 105 Auto Welding  CRT 106 Restoring Corrosion Protection  CRT 107 Auto Glass/Restraint Systems  CRT 120 Identification & Analysis-Damage  CRT 122 Straightening & Measuring System  CRT 124 Straightening & Measuring Systems II  IT 101 Computer Fundamentals  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)		Point & Refinishing Vanioness			4
CRT 106 Restoring Corrosion Protection  CRT 107 Auto Glass/Restraint Systems  CRT 120 Identification & Analysis-Damage  CRT 122 Straightening & Measuring System  CRT 124 Straightening & Measuring Systems II  IT 101 Computer Fundamentals  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)		Auto Walding		-	4
CRT 107 Auto Glass/Restraint Systems  CRT 120 Identification & Analysis-Damage  CRT 122 Straightening & Measuring System  CRT 124 Straightening & Measuring Systems II  IT 101 Computer Fundamentals  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)			•		4
CRT 120 Identification & Analysis-Damage 4  CRT 122 Straightening & Measuring System 4  CRT 124 Straightening & Measuring Systems II 4  IT 101 Computer Fundamentals 3  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)					4
CRT 122 Straightening & Measuring System  CRT 124 Straightening & Measuring Systems II  IT 101 Computer Fundamentals  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)		Identification & Analysis Domesa			4
CRT 124 Straightening & Measuring Systems II IT 101 Computer Fundamentals 3  Approved Electives: (8 credits)  Select two or more courses, equivalent to 8 or more cr/hrs. AUTT 111, 115, 130, 157, 170, 203, 210, 213 (6cr/hrs each)  AUTT 167*, or 230* (3cr/hrs each); AUTT 295* (3-9cr/hrs); WLDT 104*, 105*, 107*, 108*, 109*, 141*, 251* (4cr/hr each)					
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ARTH 106, 206, 207 4	AUTT 167*	or 230* (3cr/hrs each): ATTT 295* (3-9cs/	hrs): W1.DT 104+ 105+ 107+	10, 203, 810, 81. 108 + 100+ 141	* 251* //cm/hr acab)
	ARTH 106, 20	06, 207	may, 11201 104 , 105 ', 107 ',	100', 107', 141	, 251 (4crini euch)
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SUGGESTED COURSE SEQUENCING: Recommended Course Sequence for Full-time Students (Part-time Students should see an Academic Advisor to customize their educational plan)

Term 1 - 14cr/hrs	Term 2 – 18cr/hrs	Term 3 – 15cr/hrs	Term 4 - 14cr/hrs
CRT 101 - 4	CRT 105 – 4	CRT 107 – 4	CRT 120 - 4
CRT 103 - 4	CRT 106 – 4	CRT 122 – 4	CRT 124 - 4
CJ 221 - 3	ENGL 119 – 3	IT 101 – 3	PSY 211 - 3
MATH 115 - 3	Gen Ed Blective – 3	CRT Elective – 4	Gen Ed Elective - 3
	CRT Flective - 4		Con Da Diconvo - 5

Total Required: (61 credits)

FOR ADVISEMENT: Contact the Advisement Center at (505) 863-7706.

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### Document 6

Copy of recent Program Advisory Board Recommendations
 \*Only applies to Programs with Advisory Boards

Applied Technology – Collision Repair Program
Advisory Board Meeting Minutes
December 15, 2017
11:30 AM - 1:00 PM
Smokey's

### Members Present:

Manuel Rodriguez, CarQuest Chuck Shirley, Bond Paint Ann Jarvis, UNM-Gallup Loretta Notah, UNM-Gallup Floyd C Burnham, UNM-Gallup LD Lovett. UNM-Gallup Ted Arviso, UNM-Gallup Byron Gutierrez, UNM-Gallup

### Members Absent:

Johnny Thomas, Rico Auto Complex
Dave Martinez, Gurley Motors
Doug Cobb, D & A Body Shop
Danny Jarzomkowski, Professional Truck & Auto

### **AGENDA**

- 1 Introduction of Division Chair and Collision Repair Program Faculty (Full-Time)
  - •Introduced LD Lovett, Applied Technology Division Chair and Floyd C. Burnham, Lecturer.
- 2 Program Reports
  - •No reports at this time.
- 3 Review of Curriculum
  - •Recent action regarding degree and certificate AAS & Certificate were put on moratorium until further notice
  - Advisory Board members agree that it is a good program for students to learn basic/employment skills.
  - Training and experience will allow employment for students to obtain permanent jobs. Therefore, we should continue to offer the Certificate Program.
  - •It was mention during the meeting, that the AAS Degree and Certificate will be under review by UNM-Gallup Curriculum Committee in Fall 2018.

•Low enrollment is affecting a schools both state and nationwide. We need to find a better means of advertising (which may help).

### 4 – Shop/Classroom/Other Information

- •Current capital equipment information (copy was provided).
- •I-CAR is mostly taught online, but there are some held in classrooms/shops. Upcoming class will be on Aluminum.
- ASE Testing Site UNM Gallup is currently proctoring tests.

### 5 - Question and Answer

- •Cost of tools and equipment for Aluminum Repair and teaching in the classroom.
- The Collision Repair Program will seek National Certification through National Automotive Technicians Education Foundation/ Automotive Service Excellence (NATEF/ASE). This will ensure industry certification, which will enhance the student's ability to obtain employment.

### 6 - Last Remarks

- •Division Chair LD Lovett, thanked the members for taking time out their busy schedule to attend. We value input from the local businesses that are familiar with the Collision Repair field.
- Collision Repair Program Faculty Floyd Burnham thanked the members for attending.
- 7 Set date and time for next meeting
  - •Pending will contact members.
- 8 Meeting Adjourned
  - Adjourned at 1:35 PM

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### **Document 7**

 Copy of Nationally or Regionally Accredited External Review, with Recommendations (Licensure Programs)
 \*Only applies to Program with such accreditation

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### **Document 8**

• Summary report or recommendation from respective Department members.

### Floyd C. Burnham

The Collision Repair Program provides opportunities for local employment, for students focusing on working in Collision Repair/Auto Body Repair shops. The Certificate in Collision Repair provides studies for entry level employment opportunities as a Collision Repair Technician, Technician Helper, Glass Installer, Painter, and Interior Upholstery. Collision Repair Technician Helpers are what the local employers look for, after they obtain the experience they can go on their own as a Collision Repair/Auto Body Technician. Due to the recent change in employers seeking individuals that have college credits/degree versus an individual with no college background.

Employment projections date for automotive body and glass repairers, 2016-2026 (based on Occupational Outlook Handbook)

	SOC	Employment,	Projected Employment,	Change, 2	016-2026	Employment by
Occupational Title	Code	2016	2026	Percent	Numeric	Industry
Automotive body & Glass		180,000	195,000	8	14,900	
Repairers						
Automotive body & related	49-3021	160,400	174,100	9	13,600	
repairers						
Automotive glass installers &	49-3022	19,600	20,900	7	1,300	
repairers						

The program has been able to get funding through Carl Perkins over the past two years which has enabled us to keep current with state-of-the-art equipment for the Collision Repair Program. This enables us to develop employable skills for our students.

Data from the Collision Repair/Auto Body shop owners/managers, a Certificate in Collision Repair would be sufficient in obtaining an entry-level position. Therefore, my recommendation would be to keep the Associate of Applied Science Degree (AAS) on hiatus and offer only the Certificate in Collision Repair.



### Office of the Dean

February 26, 2018

### Program Review Summary

Spring 2018

Collision Repair Certificate and AS

The program review for Collision Repair provides a great deal of helpful information. It demonstrates that there has been a decline in students. Graduate in the AS degree are two per year for the past three years, and only one graduate with a certificate within the last 3 years. There is no list of the students completing their I-CAR industry certificate. However, it is inferred that students complete this test prior to receiving their certificate in the program. Additional documentation is needed in this area. Questions to answer include: Do students need a UNM certificate to obtain a job? Should the UNM certificate require testing for the industry certificate at the end of the UNM certificate?

The assessments are up to date. However, no annual reviews have been provided. Therefore, it is difficult to determine how successful the program was in the past years.

The review makes note of the program being on moratorium until further notice in Document 6, under the Advisory Board agenda. The agenda did not provide the date the program was placed on hiatus and the rationale for this determination.

I am concerned that since the time of the placement on hiatus, there is no indication that anything has been done to address the rationale for this placement and there is no indication that any additional data was provided for the employer need, the cost to get the program up and running, and what would be considered next steps. Without this data, I cannot advise that this program continue as is.

In my opinion, it should stay on haitus. Future possibilities include, up grading the program with new equipment if needed, deleting the program or changing the program to reflect industry needs. In order to make any recommendation, additional data would be needed. It is possible

that program prioritization taking place on campus, may provide some additional data, along with input from the curriculum committee.

Sincerely,

Irene Den Bleyker

Interim Dean of Instruction