

COURSE SYLLABUS

ABDR 1419 (4:2:4)

Basic Metal Repair

Automotive Collision Repair Program

Industrial Technology Department

Technical Education Division

SOUTH PLAINS COLLEGE

Fall 2024

Levelland Campus, Levelland, Texas

SCANS COMPETENCIES

RESOURCES: Identifies, organizes, plans and allocates resources.

C-1 **TIME**--Selects goal--relevant activities, ranks them, allocates time, and prepares and follows schedules. C-2 **MONEY**-

-Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives C-3 **MATERIALS & FACILITIES**-Acquires, stores, allocates, and uses materials or space efficiently.

C-4 **HUMAN RESOURCES**--Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

INFORMATION--Acquires and Uses Information C-5

Acquires and evaluates information.

C-6 Organizes and maintains information.

C-7 Interprets and communicates information. C-8

Uses computers to Process information.

INTERPERSONAL--Works With Others

C-9 Participates as members of a team and contributes to group effort.

C-10 Teaches others new skills.

C-11 Serves clients/customers--works to satisfy customer's expectations.

C-12 Exercises leadership--communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

C-13 Negotiates-Works toward agreements involving exchanges of resources resolves divergent interests.

- C-14 Works with Diversity-Works well with men and women from diverse backgrounds. **SYSTEMS--Understands Complex Interrelationships**
- C-15 Understands Systems--Knows how social, organizational, and technological systems work and operates effectively with them
- C-16 Monitors and Correct Performance-Distinguishes trends, predicts impacts on system operations, diagnoses systems' performance and corrects malfunctions.
- C-17 Improves or Designs Systems-Suggests modifications to existing systems and develops new or alternative systems to improve performance.
- TECHNOLOGY--Works with a variety of technologies**
- C-18 Selects Technology--Chooses procedures, tools, or equipment including computers and related technologies.
- C-19 Applies Technology to Task-Understands overall intent and proper procedures for setup and operation of equipment.
- C-20 Maintains and Troubleshoots Equipment-Prevents, identifies, or solves problems with equipment, including computers and other technologies.

FOUNDATION SKILLS

- BASIC SKILLS--Reads, writes, performs arithmetic and mathematical operations, listens and speaks**
- F-1 Reading--locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- F-2 Writing-Communicates thoughts, ideas, information and messages in writing, and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- F-3 Arithmetic--Performs basic computations; uses basic numerical concepts such as whole numbers, etc.
- F-4 Mathematics--Approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- F-5 Listening--Receives, attends to, interprets, and responds to verbal messages and other cues.
- F-6 Speaking--Organizes ideas and communicates orally.
- THINKING SKILLS--Thinks creatively, makes decisions, solves problems, visualizes, and knows how to learn and reason** F-7
- Creative Thinking--Generates new ideas.
- F-8 Decision-Making--Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- F-9 Problem Solving--Recognizes problems and devises and implements plan of action.
- F-10 Seeing Things in the Mind's Eye--Organizes and processes symbols, pictures, graphs, objects, and other information.
- F-11 Knowing How to Learn--Uses efficient learning techniques to acquire and apply new knowledge and skills.
- F-12 Reasoning--Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.
- PERSONAL QUALITIES--Displays responsibility, self-esteem, sociability, self-management, integrity and honesty** F-13
- Responsibility--Exerts a high level of effort and preservers towards goal attainment.
- F-14 Self-Esteem--Believes in own self-worth and maintains a positive view of self.
- F-15 Sociability--Demonstrates understanding, friendliness, adaptability, empathy, and politeness in group settings. F-16 Self-Management--Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control. F-17 Integrity/Honesty--Chooses ethical courses of action.

Levelland Campus

COURSE SYLLABUS

COURSE TITLE: **ABDR 1419: BASIC METAL REPAIR**

INSTRUCTORS: Walter Scales, Cody Shields
 OFFICE LOCATION: MT OFFICE #2, (806) 806-716-2286
 & PHONE/e-mail: e-mail jwisian@southplainscollege.edu

OFFICE HOURS: BY APPOINTMENT

I. GENERAL COURSE INFORMATION:

- A. 1419 Course Description:** Basic current metal working techniques, shop safety, proper tool usage, product application, and skill development utilizing various body features including metal principles. This class must be taken concurrently with all ABDR classes unless other arraignments have been approved.
- B. Learning Goals/Objectives:** The student will perform basic metal straightening procedures; utilize basic body shop hand tools; and utilize appropriate plastic filler application and techniques. The student will comply with personal and environmental safety practices associated with clothing, eye protection, and use of chemicals, hand tools, and power equipment.

*Use appropriate personal safety protection.

- C. **Course Competencies:** Knowledge of the construction design of unitized and conventional(BOF) vehicles, knowledge of various metal straightening techniques and the use of various types of fillers.

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

*Identify various types of sheet metal used in vehicle construction.

*Analyze, Identify and repair various types of automotive sheet metal damage using industry accepted repair methods.

*Metal work damaged sheet metal with hammer and dolly.

*Prepare surface to receive appropriate plastic filler.

*Smooth a level filler with appropriate grade of sandpaper to correct contour and ready for primer application.

- D. **Academic Integrity:** It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

1. **Cheating:** Dishonesty of any kind of examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in an office are examples of cheating.
2. **Plagiarism:** Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from the themes, reports or other writings of a fellow student, is guilty of plagiarism.

A. SCANS and Foundation Skills

Appropriate competencies and foundation skills set forth by the Secretary's Commission on Achieving Necessary Skills (SCANS) have been integrated into the ACR 161-264 Training program. Specifically, they are C1,C3,C6,C7,C9,C11,C12,C14,C15,C16, C18, C19,C20, and F1-F17. References and methods are detailed in the Scans document filed in the office of coordinator of the Automotive Collision Repair Program.

II. Specific course/instructor Requirements

A. Textbook and Other Materials

Textbook: Auto Body Repair Technology, 5th edition, James E. Duffy Notebook: Must contain all required course text including handout material.

Hand tools: see attached/Required Tool List.

Safety Equip: see attached/Required Safety Equipment.

I-CAR DISC: May need to be purchased

B. Attendance

1. Punctual and regular attendance is required.
2. After five absences the student will be required to come in on Friday to make up missed lab work/assignments
3. No sandals, tank tops, or shorts.

Cell phone needs to be on vibrate while in classroom.

No texting and no games while in classroom.

Facial hair is to be mustache only.

D. Examination Policy

1. Tests will be given by the instructor on all chapter assignments once that unit has been reviewed.
2. Prior notification of quizzes may or may not be given.
3. Final exams will be given to all students covering lectures and instruction for the entire semester.
4. Tutoring-Students who do not pass their first exam will be required to attend three hours of tutoring each week until they pass their next exam. This is a course requirement and will be reflected in the course grade.

B. Grading Policy

1. *Classroom (40% of final grade)*
 - a. Results of daily or unit tests, including I-CAR tests and homework. (20% of final grade)
 - b. The final exam will be a percent grade. (20% of final grade)
2. *Lab (60% of final grade)* - Assessed on a basis of:
 - a. Safety Procedures
 - b. Proper use of machine and hand tools
 - c. Quality of workmanship, skill
 - d. **Attitude and cooperation**
 - c. Attendance
3. *Final Grade Computation*
40% of final grade - classroom
60% of final grade - lab
4. *Daily/Weekly*
 - a. Minimum grade required to remain in class is 70%.
 - b. A weekly lab grade will be given, which includes safety, attitude and cooperation, attendance, proper use of hand tools and quality of workmanship on projects.

F. Additional Information

1. The instructor will appoint a student foreman on a rotation basis.
2. All students will be responsible for the tool lock up and shop clean up.
3. Each student is required to have a locker and keep it clean and organized.
4. There will be a basic set of hand tools and safety equipment required for the course. A suggested tool list will be available to the students.

ACCOMODATIONS

Accommodations such as the Diversity Statement, Disabilities Statement, Non-Discrimination Statement, Title IX Pregnancy Accommodations Statement and Campus Concealed Carry Statement can be found here: <https://www.southplainscollege.edu/syllabusstatements/>