

COURSE SYLLABUS

Course Title: AUMT 2328-271 Automotive Service (3:1:8)
Semester/Year: Spring 2018
Instructor: Mr. Marc Wischkaemper
Office: Lubbock Center 3907 Ave. Q, Lubbock, TX. 79412 Room 136C
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Office Hours: Check posted hours after classes begin or by appointment

SOUTH PLAINS COLLEGE IMPROVES EACH STUDENTS LIFE

I. GENERAL COURSE INFORMATION

- A. **Course Description: (3:1:8)** – Mastery of automotive vehicle service and component systems repair. Emphasis on mastering current automotive competencies covered in related courses. May be taught manufacturer specific.
- B. **Course Goals/Objectives:** Students will demonstrate a mastery level of automotive shop safety, tool and equipment usage, handling hazardous materials properly, and related vehicle system service diagnosis and repair.
- C. **Course Competencies:** A = 100 - 90 B = 89 - 80 C = 79 -70 F = 69 - or below. A grade of “C” or higher is required to successfully complete this course.
- 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 own, any work which he 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. For further information concerning Cheating and Plagiarism, read the section on Academic Integrity in the SPC General Catalog. **If you have a question as to whether you may work with other students on an assignment, ASK YOUR INSTRUCTOR. On some assignments, working with others is encouraged.**
- E. **SCANS and Foundation Skills:** Specific SCANS competencies and foundation skills applicable to this course are listed adjacent to each objective in the course objective table. They include: Foundation Skills (F): 1,2,3,5,6,8,9,10,11,12. Competencies(C): 5,6,7,11,14,15,16,17,18,19,20.
A complete list of SCANS competencies and foundation skills is attached at the end of this syllabus.
- F. **Verification of Workplace Competencies-Technical Education Division.** The learning outcomes of this course will prepare the student for employment in the automotive field. In addition, the student will also be prepared to take any of the ASE Student Certification Tests.

II SPECIFIC COURSE/INSTRUCTOR REQUIREMENTS

A. **Textbook & Other Required Materials:**

1. James D. Halderman. Automotive Technology Principles, Diagnosis and Service Pearson Publishers 2016 5th Edition (with on-line curriculum)
2. Pen or pencil, and notebook for note taking and assignments
3. Safety Glasses, and Hearing Protection sufficient for course length.

B. **Class Attendance Policy.** Students are expected to attend all classes in order to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive **without notice. Excessive absences mean 4 (four) or more absences for any reason. Two (2) tardies will count as one absence. Leaving class without notifying your instructor is considered an absence, regardless of the time you left. Excessive absences cause you to miss key points of a class and show you are not reliable-dependable for employment.**

When an unavoidable reason for class absence arises, such as illness, an official trip authorize by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor.

It is the student's responsibility to verify administrative drops for excessive absences through My SPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

C. **Assignment Policy:** All assignments are due at the beginning of class on the due date unless otherwise stated by your instructor. **Part of these assignments will be on-line through the on-line curriculum, you should log on to the on-line curriculum at the beginning of the semester to complete them on time. There may be no makeup assignments and no late assignments will be accepted.** The dates printed in this syllabus can change. Every effort will be made to inform students of those changes, but the students are ultimately responsible for all assignments regardless of any changed dates. Please check the dates with your instructor throughout the course.

D. Grading Policy/ Procedure and/or Methods of Evaluation: All exams are mandatory for effective student evaluation. Exams will cover theory and practical skills pertaining to all aspects of material presented. Adequate study time should be set aside for exam reviews. **There may be no makeup exams. All fees owed to South Plains College, including projects, are required to be paid in full before you take your final exam.** The ASE Student Certification test mentioned above can be used in place of your final exam.

You will be evaluated during this course by the following method:

Unit exams, Written assignments, pop quizzes = 25%

Skills tests/ Lab sheets = 50%

Final Exam: = 25%

A unit skills test is a measure of how well you follow instructions, your safety in the shop, your use of tools, your cleanliness in the work area and your attention to detail while you perform diagnostics or repairs within a required time period. A task sheet is used to plan and track students while they perform required skills in the shop. This is not used to average your grade, but it is a professional evaluation of how well you work independently and your level of expertise in completing assigned tasks. Prospective employers will want to see this during an interview, so please follow the shop and repair procedures to the best of your ability.

E.

Special Requirements: A student's conduct is expected to follow the guidelines stated in the college catalogue and student handbook, any deviation will result in immediate disciplinary action. Please turn off all cell phones, pagers, etc. during class. A detailed list of lab/shop guidelines will be distributed to you at the beginning of this class; you are expected to follow all guidelines when in the shop. **No smoking is permitted in the building or outside the back doors of the shop and food and drinks are not allowed in any classroom, lab, or shop.** All these activities will be limited to break time in designated areas only. Breaks will be limited to 20 minutes. Do not park on the back lot unless preauthorized by your instructor, unauthorized vehicles can be towed at the owner's expense.

Dress Code: The Automotive Program requires you to dress appropriately. Flip flops or opened toed shoes are not allowed in the shop, proper foot attire should be worn to protect your feet, leather work boots are recommended. Jeans/ pants will be worn so that neither one falls to your thighs or knees, belts must hold them at your waistline. Safety glasses will be worn at all times in the shop. If a student fails to comply with the above dress code, he or she will be sent home and given an absence for that day.

LUBBOCK CAMPUS GUIDELINES

CHILDREN ON CAMPUS

Many of the students attending classes at South Plains College - Lubbock Camps are also parents who value the opportunity to participate in higher education. Sometimes students are faced with the decision of whether to remain at home with their children, bring children with them to class, or be absent from class. The following guidelines address concerns for the safety of children on campus and provide for an environment conducive to learning.

CHILDREN IN THE CLASSROOM

Students are not allowed to bring children to class and will be asked to leave in the interest of providing an environment conducive for **all** students enrolled in the class. Students are responsible for adherence to the attendance requirements set forth by the instructor in the course syllabus.

UNATTENDED CHILDREN ON CAMPUS

Children may not be left unattended. In order to provide for the safety of children on campus, parents or other guardians are responsible for supervising children while utilizing services or conducting business on campus.

DISRUPTIVE CHILDREN

Disruptive children will not be allowed to interfere with college business. Parents or other guardians are responsible for supervising and controlling the behavior of children they have brought on campus.

Diversity Statement

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

ADA Statement

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland Student Health & Wellness Center 806-716-2577, Reese Center (also covers ATC) Building 8: 806-716-4675, Plainview Center Main Office: 806-716-4302 or 806-296-9611, or the Health and Wellness main number at 806-716-2529.

GENERAL SAFETY ON CAMPUS

South Plains College recognizes the importance of safety on campus. The protection of persons and property is a responsibility, which we all share. Personal safety begins with the individual. The following guidelines are intended to assist you in protecting yourself and to encourage practices that contribute to a safe environment for our campus community.

- Never leave your personal property unsecured or unattended.
- Look around and be aware of your surroundings when you enter and exit a building.
- Whenever possible, avoid walking alone, particularly after dark. Walk to your vehicle with other class members or request that the Security Guard walk you to your car.
- When approaching your vehicle, keep your keys in your hand; look under your car and in the back seat and floorboard. Lock the doors as soon as you are inside your car.

FOOD AND DRINK IN CLASSROOMS

It is the policy of South Plains College not to permit food or drink in the classrooms or laboratories

**.In case of emergency, contact the following numbers, but DO NOT leave a voice mail message.
716-4677 – ATC 716-2923 – Reese Center (mobile 893-5705)**

	<p>Course Objectives: Upon completion of this course, you should be able to:</p> <ul style="list-style-type: none"> • Use manufacturer service manuals and specifications to properly diagnose and repair related vehicle systems. • Diagnose and repair anti-lock brake systems. • Perform all types of alignments within the flat rate time. • Diagnose and repair electronic A/C systems. • Diagnose and repair drivability concerns including emission systems. • Diagnose and repair engine concerns including oil leaks and noises. • Diagnose and repair 4-wheel drive systems • Diagnose and repair electronic shift automatic transmissions. • Use lab scopes to determine electrical failures including engine data sensors. 	
F1,2,5,8-12		C5-7,15,18-20
F1,2,5,8-12		C5,7,15,16,19,20
	<p style="text-align: center;">Content Outline:</p> <p>Unit I: Antilock Brake Systems and Alignments. Unit Objectives: Upon completion of this unit, you will be able to:</p>	
F1,2,5,8-12	<ul style="list-style-type: none"> • Demonstrate industry standard safety procedures while servicing and repairing anti-lock brake systems. 	C5-7,15,18-20
F1,2,5,8-12	<ul style="list-style-type: none"> • Diagnose and repair anti-lock brake systems. 	C5,7,15,16,19,20
F1,2,5,8-12	<ul style="list-style-type: none"> • Perform all types of alignments within the manufacturers' flat rate time. 	C5,7,15,16,19,20
F1,2,5,8-12	<ul style="list-style-type: none"> • Use manufacturer service manuals and specifications along with industry standard tools and equipment to perform the above tasks. 	C5-7,15,18-20

	<p>Unit II: Heating – A/C and Electrical Systems Unit Objectives: Upon completion of this unit, you will be able to:</p> <ul style="list-style-type: none"> • Demonstrate industry standard safety procedures while servicing and repairing electronic heating and A/C and electrical systems. • Diagnose and repair electronic heating and A/C systems. • Diagnose and repair electrical/electronic systems using lab scopes. • Use manufacturer service manuals and specifications along with industry standard tools and equipment to perform the above tasks. <p>Unit III: Engine Repair, and Drivability Unit Objectives: Upon completion of this unit, you will be able to:</p> <ul style="list-style-type: none"> • Demonstrate industry standard safety procedures while servicing and repairing engines, computer and emission systems. • Diagnose and repair engine oil leaks and noises. • Diagnose and repair drivability concerns on OBD II vehicles. • Use manufacturer service manuals and specifications along with industry standard tools and equipment to perform the above tasks. <p>Unit IV: Four Wheel Drive and Electrical Automatic Transmissions Unit Objectives: Upon completion of this unit, you will be able to:</p> <ul style="list-style-type: none"> • Demonstrate industry standard safety procedures while servicing and repairing 4-wheel drive and electronic automatic transmission systems. • Diagnose and repair 4-wheel drive systems including transfer cases and AWD. • Diagnose and repair electronic automatic transmissions. • Use manufacturer service manuals and specifications along with industry standard tools and equipment to perform the above tasks. 	<p>C5-7,15,18-20</p> <p>C5,7,15,16,19,20 C5,7,15,16,19,20</p> <p>C5-7,15,18-20</p> <p>C5-7,15,18-20</p> <p>C5,7,15,16,19,20 C5,7,15,16,19,20 C5-7,15,18-20</p> <p>C5-7,15,18-20</p> <p>C5,7,15,16,19,20 C5,7,15,16,19,20 C5-7,15,18-20</p>
F1,2,5,8-12		C5-7,15,18-20
F1,2,5,6,12		C5,7,15,16,19,20
F1,2,5,6,12		C5,7,15,16,19,20
F1,2,5,6,12		C5-7,15,18-20
F1,2,5,8-12		C5-7,15,18-20
F1,2,5,8-12		C5,7,15,16,19,20
F1,2,5,8-12		C5,7,15,16,19,20
F1,2,5,8-12		C5-7,15,18-20
F1,2,5,8-12		C5-7,15,18-20
F1,2,5,8-12		C5,7,15,16,19,20
F1,2,5,8-12		C5,7,15,16,19,20
F1,2,5,8-12		C5-7,15,18-20

AUMT 2328

Automotive Service

Assignment and Exam Schedule Unit I: Antilock Brake Systems and Alignments

Date: January 17th – February 7th

Unit I Assignment: In textbook read chapters 106,107,119,120 Properly fill out all lab sheets and perform all tasks associated with the lab activities and lab sheets. Turn in all lab sheets on the due date.

Homework Due: February 7th

Unit 1 Exam and Skills Test February 7th

Unit II: Heating – A/C and Electrical Systems

Date: February 8th – March 7th

Unit II assignment: In textbook read chapters 39,40,45,63 Properly fill out all lab sheets and perform all tasks associated with the lab activities and lab sheets. Turn in all lab sheets on the due date.

Homework Due: March 7th

Unit 2 Exam and Skills Test March 7th

SPRING BREAK MARCH 12TH – 16TH

Unit III: Engine Repair and Drivability

Date: March 8th – April 11th

Unit III assignment: In textbook read chapters 49, 87 properly fill out all lab sheets and perform all tasks associated with the lab activities and lab sheets. Turn in all lab sheets on the due date.

Homework Due: April 11th

Unit 3 Exam and Skills Test April 11th

Easter Break April 2nd

Unit IV: Four Wheel Drive and Electronic Automatic Transmissions

Date: April 12th – May 2nd

Unit IV assignment: In textbook read chapters 126,128 Properly fill out all lab sheets and perform all tasks associated with the lab activities and lab sheets. Turn in all lab sheets on the due date.

Homework Due: May 2nd

Unit 4 Exam and Skills Test May 2nd

The Final Exam is scheduled for MAY 7th 1:00 PM

SCANS COMPETENCIES

- C-1 **TIME** - Selects goal - relevant activities, ranks them, allocates time, prepares and follows schedules.
- C-2 **MONEY** - Uses or prepares budgets, makes forecasts, keeps records and makes adjustments to meet objectives.
- C-3 **MATERIALS AND 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 Corrects 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, evaluates and chooses best alternative.
- F-9 Problem Solving–recognizes problems, 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 perseveres 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 polite-ness 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

Remind App:
Enter 81010
Text @mwichkaem

Pearson Course ID # wischkaemper22759