

# GENERAL MOTORS MAINTENANCE AND LIGHT REPAIR ASEP 111 SYLLABUS

## Course Information

Dept.	Course	Semester	Credits	Bldg.	Room	Days	Time
ASEP	111	Fall	4	Trades &Tech	2414	M, W	6:40 – 10:40

## Instructor – Don Beauregard

Office	Office Hours	Message Phone	Mail Box	Mail Stop	e-mail Address
2409	11:00 – 12:00 M-F	(505) 566-3291	N/A	N/A	beauregardd@sanjuancollege.edu

### **Common Student Learning Outcomes**

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

**a. Broad and Specialized Learning**

**Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.**

**b. Critical Thinking**

**Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.**

**c. Cultural and Civic Engagement**

**Students will act purposefully, reflectively, and ethically in diverse and complex environments.**

**d. Effective Communication**

**Students will exchange ideas and information with clarity in multiple contexts.**

**e. Information Literacy**

**Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.**

**f. Integrating Technologies**

**Students will demonstrate fluency in the application and use of technologies in multiple contexts.**

*Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.*

## Course Description

The operating principles of a working GM shop, GM E-learning, GM Scan Tool usage and Vehicle General Maintenance. Safety is emphasized.

## **General Learning Objectives**

- To prepare the student with job entry level qualifications maintenance.
- Completion of 100% of NATEF priority 1 tasks.
- Completion of 85% of NATEF priority 2 tasks.
- Completion of 75% of NATEF priority 1 tasks.

## **Specific Learning Outcomes**

- Proper use and operation of shop equipment, personal protective equipment and material safety data sheets
- Proper use and operation of shop equipment and proper tool usage
- Proper maintenance procedures, inspection sheet usage, and understanding of maintenance schedules for GM vehicles

## **Instructional Assessment**

Students in the automotive program will be exposed to discovery-based learning as the primary teaching method. Lecture and reading assignments are very important to support the lab learning activities. For this reason, regular reading quizzes will be administered with major examinations at the end of each instructional unit. The written final will cover all course content, as will the hands-on final.

## **Teaching Methods**

ASEP 111 is an 8 hour per week lecture, lecture demonstration, and lab class designed to provide the students with technical skills required for the servicing, repair and diagnosis of today's auto drivetrain systems. The following instructional techniques and tools will be used: lecture, demonstration, videos, handouts, textbook, transparencies, whiteboard, charts, class discussion, question and answer, individual and group lab projects, labsheets, mock-ups, shop manuals, and live vehicle repairs.

## **Instructional Philosophy**

Students in the automotive program will be exposed to discovery based learning as the primary teaching technique. This teaching method provides just enough information for students to begin projects or tasks, then, allows discovery of techniques or knowledge during the activity. Successful technicians use this same learning model when faced with changing technology in the automotive industry today. Experience has proven, students that adapt to new technology in this manner ultimately succeed in the workplace.

## **Materials Required**

- Pen, pencil and paper
- 3-Ring binder for labsheets
- Calculator
- Trade appropriate shop clothing – uniform pants and shirt are recommended
- Appropriate industrial shop shoes
- Safety glasses (required at all times in lab)

## **Student Conduct**

All students attending the San Juan College automotive program are strictly held to the Student Code of Conduct. This code defines and restricts student classroom behavior, possession of weapons, and use of controlled substances. It is advised that all students familiarize themselves with this document. This document is available in the college Web site/student hand book pages 29-34. Appropriate use of campus computer resources is also a matter of policy and awareness of such policy will be the responsibility of each individual student. Violation of such campus rules will result in disciplinary action and possible removal from the automotive program. San Juan College also implements an academic honesty policy, details of this policy can also be found in the student hand book.

<http://www.sanjuancollege.edu/documents/Academic%20Honesty%20Rules%20Final.pdf>

## **Attendance Policy**

San Juan College has the responsibility to the community to graduate qualified, dependable students. The State of New Mexico and San Juan County provide funds to assist the college in meeting this responsibility; therefore, it is reasonable to expect prompt, regular attendance on the part of each student. Moreover, excessive absenteeism is never tolerated by an employer and is grounds for dismissal from the job. If a student accumulates over four absences he/she will receive a failing grade.

All absences, including half-day absences, will be classified as unexcused. Most businesses cannot afford to pay employees if they are not working, so it is good to get in the habit of regular attendance. All medical appointments should coincide with hours outside classroom time whenever possible.

A student, who is not in the classroom when roll is taken, will be counted absent. Attendance will count for a minimum of 25% of your class grade point average. If you are unable to attend class, it is your responsibility to call your instructor before class time.

The instructor has the authority to determine if the proper attire and/or safety equipment is being worn. A student can be counted as absent if he/she does not have the proper attire/safety equipment

**Classes will begin and end in the classroom.**

## **ATTENDANCE GRADING SCALE**

### **Absence**

0	100%
1	90%
2	70%
3	40%
4	0%

## Liability Statement

The automotive department should be considered an industrial environment. The college does not insure students and therefore recommends that students be insured for medical coverage in case of an accident

## Grading policies

### 1. Grading scale/system

93 – 100	=	A	Shop work is 25% of the grade.
85 – 92	=	B	Tests and quizzes are 25% of the grade.
77 – 84	=	C	Attendance is 25% of the grade.
69 – 76	=	D	Written Final 12% Hands-On Final 13% of the grade.
0 – 68	=	F	

## Class Schedule with Assignments, Quizzes, Examinations

The following schedule provides all of the course assignments for reading and lab. Quizzes and examinations are also indicated by date. Please be aware that all of the quizzes and examinations must be taken at their indicated times in class.

## OUTLINE

- CLASS STARTS-8/24/2015 ENDS-10/14/2015 HOLIDAY-9/7/2015
- SAFETY EQUIPMENT-8/26/2015-SAFETY GLASSES-LEATHER SHOES
- SAFETY-CENTER OF LEARNING-TOOLS-VIN-QUIZ
- FASTENERS-TAPS AND DIES-BROKEN FASTENERS-QUIZ
- MEASURING-TAPE MEASURE-MICROMETERS-VERNIER CALIPERS-DIAL INDICATORS-QUIZ
- SERVICE INFORMATION-QUIZ
- SCAN TOOL-TECH-2-MDI-GDS-VIS-TIS-PROGRAMING-KEY FOBS-QUIZ
- RO'S-EMERGING ISSUES-3'CS-TEST DRIVES-PARKING VEHICLES-QUIZ
- MULTI-POINT VEHICLE INSPECTION-UCI-PDI-GR8-QUIZ
- MAINTENANCE SCHEDULES-CHECKING FLUIDS-RESETS-QUIZ
- OIL CHANGE-FILTERS-OIL. FUEL. AIR. CABIN-WIPERS-LIGHT BULBS-BRAKE INSPECTION-QUIZ
- TECHLINE-WARRANTY PARTS-PARTS REQUISITION-JOB ESTIMATE-QUIZ
- TIRES-REPAIR-WEAR-BALANCE-INSPECTION-ROTATION-TPM-TORQUING-WHEEL LOCKS-QUIZ
- DOOR TRIM REMOVAL-INTERIOR PROTECTION-AIR BAG DISABLE-QUIZ
- HYBRIDS-MAINTENANCE-START/STOP VEHICLES-QUIZ
- FINAL-WRITTEN & HANDS-ON