



AUTO TECHNOLOGY I First Semester, 2009-2010

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OVERVIEW: With the universal adoption of microprocessor controls and emissions regulations for today's cars, the standards for a successful career in automotive technology have changed dramatically over the past 30 years. Technicians today must possess excellent analytical, diagnostic, and communications abilities. To develop the needed skills for entry-level employment or post-secondary training in the automotive industry, students learn the basic manipulative skills and theory necessary to become proficient in servicing and repairing automobiles.

At Gaithersburg High School, students are provided with classroom and laboratory experiences in the following areas: engine performance, brakes, suspension and steering, and electrical and electronic systems. Our program is ASE/NATEF compliant, which means the National Automotive Technicians Education Foundation prescribes and approves the curriculum.

The student needs to maintain a "C" average to be accepted into the Auto Technology 2 A and B program.

UNITS OF STUDY –

Unit	
I.	Auto Service Department Safety and Environmental Control
II.	Overview of the Automotive Industry
III.	Tools and Shop Equipment & Safety
IV.	Professional Technician and Training Certification, the ATF and the "Mini-Dealership" Model.
V.	Brake Systems
	A. Brake system operation
	B. Diagnosing and repairing brake hydraulic systems
	C. Diagnosing and repairing drum brake systems
	D. Diagnosing and repairing disc brakes
	E. Diagnosing and repairing brake power boosters
	F. Diagnosing and repairing parking brakes
	G. Diagnosing and repairing antilock brakes

CLASS EXPECTATIONS

Vision: Gaithersburg High School expects academic excellence, embraces diversity, and fosters respect and responsibility for all students.



Students' expectations: Students can expect lectures, presentations, demonstrations, group discussions, text assignments, written assignments, assessments, videos, guest speakers, laboratory (shop) and practice assignments to present this course of study.

Teacher's expectations: Students are expected to be present and on time every day and to take notes in class, to involve themselves in group discussions, shop maintenance, and all laboratory activities. Students are to observe MCPS guidelines, all safety practices and conduct themselves in a professional manner appropriate to industry.

MARKING PERIOD GRADES

- Grading scale:
 - A = 90 – 100%
 - B = 80 – 89%
 - C = 70 – 79%
 - D = 60 – 69%
 - E = 50 – 59

Work not attempted by the deadline date will be recorded as a zero.

- Major Course Projects and Assignments:
 1. Diagnose, repair, or replace brake hydraulic system components
 2. Diagnose, repair, or replace drum brake components
 3. Diagnose, repair, or replace disc brake components
 4. Diagnose, repair, or replace brake power booster components
 5. Diagnose, repair, or replace parking brake components
 6. Diagnose, repair, or replace ABS system components
- Types of assessments:
 - 10% of grade is based on *employability skills* in lieu of homework
 - 40% of grade is based on *formative* assessments: classwork, notebook, individual assignments, and your contribution to team projects.
 - 50% of grade is based on *summative* assessments: tests, quizzes, and evaluated laboratory proficiencies (competencies).
- Weighting of tasks and assessments
 - Proficiencies are graded according to the following rubric:
 - A = Demonstrates *mastery* of the proficiency
 - B = Demonstrates all aspects of competency but *needs practice*
 - C = Demonstrates *most* aspects of competency but needs *some* assistance
 - D = Demonstrates *some* aspects of competency but needs *frequent* assistance
 - E = Demonstrates some *exposure* to competency

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Practice laboratory work is **not** graded!

HOMEWORK-

The employability skills you develop and demonstrate comprise 10% of your grade in the place of homework. Employability skills include being on time, being prepared for class activities, working cooperatively with others, using time efficiently, being honest and trustworthy, and being self-motivated. These are all necessary skills that employers demand in an employee.

LATE WORK AND /OR MISSING WORK:

- Each assignment will have a **due date**. This is the date by which you are expected to submit the assignment. Your grade will drop one letter grade if it is not turned in by the due date.
- The **deadline** is the last day an assignment will be accepted for a grade. Work not turned in by the deadline will be considered **missing**.
- Missing work will be recorded in the grade book as a zero.
- If a student is absent from class, that student is responsible for making up missed work.

RE-TEACHING AND REASSESSMENT

- Re-teaching occurs when teacher or student determines that the student is not meeting learning goals.
- Reassessment opportunities are identified by the teacher before the original task/assessment and will occur within an instructional unit.
- Teachers will provide one reassessment opportunity per task/assessment.
- Assessments or tasks that provide measures of student progress within an instructional unit may be reassessed. [May not be reassessed: End of course or semester exams, assessments that end an instructional unit or period of study, final research papers, reports, or essays; culminating projects or performances]
- All students may be reassessed regardless of grade on original tasks/assessments, if they meet the following requirements: complete the original tasks or assessment; complete required assignments, and complete re-teaching/relearning activities as determined by the teacher.
- When tasks are reassessed, they may be reassessments partially, entirely, or in a different format and the reassessment grade replaces the original grade.

COMMUNICATION

- Student Handbook/ Planner
- Edline

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- Progress Reports/Interims
- Report Cards
- Telephone
- E-mail

OPPORTUNITIES FOR EXTRA HELP

I am available for extra help on Thursday 2:10-4:30 p.m. Other days are by appointment