

MIDLAND COLLEGE
Syllabus
AERM 1349 – HYDRAULIC, PNEUMATIC & FUEL SYSTEMS
SCH (2 Hours Lecture, 4 Hours Lab)
96 Hours

Course Description:	Skill development in inspecting, servicing & maintaining aircraft fluid systems including hydraulics, pneumatics & fuel. Application of basic concepts through detailed maintenance procedures.
Text References And Supplies:	<ol style="list-style-type: none">1. <i>A & P Technician Airframe Textbook, by Jeppesen, Current Edition</i>2. <i>Airframe Test Guide, ASA-AMA-05, BY Crane, Current Edition, Wing AERO</i>
Course Goals/ Objectives:	Upon Successful completion of the course the student will: <ol style="list-style-type: none">1. Demonstrate industry level competency in fuel maintenance procedures.2. Demonstrate competency in hydraulic & pneumatic systems maintenance procedures.
Student Contributions And	<ol style="list-style-type: none">1. Students <i>MUST</i> actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity will be reported as never attended & dropped from the course.
Class Policies:	<ol style="list-style-type: none">2. <u>You are required to attend class regularly.</u> Roll will be taken at each class meeting. Unexcused absences will not be tolerated. In case of an unavoidable absence, you are expected to contact your instructor as soon as possible. The instructor will evaluate each absence. He is particularly concerned with your progress in the course, your motivation, and your understanding of the material which you missed. BE SURE TO CONTACT YOUR INSTRUCTOR TO SCHEDULE MAKE-UP WITHIN ONE WEEK OF THE ABSENCES.3. <u>You are expected to arrive for class on time.</u> Tardiness shows poor preparation and poor motivation. It is gross discourtesy to the instructor and to the other members of the class to interrupt their instruction.4. <u>If you are going to be absent from an exam, arrangements should be made prior to the absence.</u> Make-up exams will be given only when an excused absence necessitates. All make up exams must be taken within one week after the original examination time. Under no circumstances will a make-up examination be given after papers are returned.

(Postponement of a final exam must be approved by the Dean of Instruction.)

5. You will be counseled by your instructor for lack of attendance and informed of make-up policies. When the instructor feels that you are not keeping up with the class due to absence, he may recommend you withdraw from the course.

6. You must go through a formal procedure if you wish to drop a course. A student may withdraw from a course or from College with a grade of "W", through the half-way point of any semester or summer term. After half-way point of any semester term, but no later than seven calendar days prior to final examinations, a student may withdraw from a course with a grade of "WP" if passing or a grade of "WF" if failing. Specific dates and procedures are outlined in the College Catalog. No withdrawal is official unless processed by the campus Registrar's Office. Until that time, the student will remain on the class roll and may receive a final grade of "F".

6. You must be able to read, speak and understand the English language.

Tardy

1. For each three (3) times in excess of 15 minutes, the student will be assessed one (1) absence.
2. Each assessed absence will be required to be made up by the student according to the make-up policy.

Absence

1. Upon accumulation of three (3) absences or any lessor amount of hours considered to jeopardize the student's progress, an official warning will be mailed to the student.
2. If the student chooses not to respond to a warning by contacting the instructor, it will be his/her responsibility to withdraw from the course with a "W", "WP", "WF". Failing to take any action will result in an "F" for the course.
3. All time missed by the student must be made up before a passing grade may be recorded.
4. Make-up procedures all classroom material missed will be made up in the same subject area. All shop material missed will be made up in the same shop subject area.

Make-up Policy

1. Punctual class attendance is required of all students registered at Midland College. No excused absence or "cuts" are allowed. College and federal aviation regulations require that a student make-up all class and laboratory work covered during his absence,

even in cases where he is able to satisfy the instructor that the absence was unavoidable.

2. Each instructor will schedule ten (10) office hours per week during which time he will be available for student help and make-up work. The schedule will be posted on the office door of each instructor at the beginning of each semester. At the beginning of each semester the instructor will pass out a schedule informing students of the date, time, and place for making up work missed.
3. All make-up work will be scheduled at a time other than regular class time. For instance morning classes missed may be scheduled in the afternoon. Make-up work will be completed within two weeks after missed. Exceptions shall require the approval of the director of Aviation Maintenance Technology.
4. The different levels of work missed may be made up according to the levels of FAR 147, Appendix A.P7. Examples are as follows:
 - a. Level one may be made up by a written assignment.
 - b. Level two may be made up by a combination of written assignment and limited practical application.
 - c. Level three must be made up through performance of practical application.
5. All make-up work will be made in the same subject area as the time missed whether it is in shop or class time.
6. Before the final grade for each course is given all quizzes, tests and make-up time must be completed for the course.

Practice Tests:

1. All students must complete three (3) practice tests for each section
General Airframe Powerplant
with a score of 90 or higher for all practice tests. It is the responsibility of the student to show the Instructor or Program Chair the score for each test. Score will then be documented. Upon presenting these scores, the student will then receive the Aviation Maintenance Technology Letter of Completion for General and the Aviation Maintenance Technology Certificate for Airframe and General. Student will then be responsible for scheduling, paying and taking the written test for the particular area.

**Evaluation of
Students:**

Grades

This system, with appropriate grade points, is as follows:

- A (90-100)
- B (80-89)
- C (70-79)

Shop/Lab Grading

- 80% For successful and prompt completion of project
- 10% For proper use and availability of hand tools
- 10% For SAFETY

**Course
Schedule:**

AERM 1241 HYDRAULIC, PNEUMATIC & FUEL SYSTEMS

Informal	25%
Section tests	25%
Laboratory (shop) procedures, safety & reports	25%
Comprehensive final examination	25%

**Instructor
Information:**

Chad Farris

cfarris@midland.edu

Office Phone: 432.563.8952

Office Hours: TBA

Note: Students are encouraged to contact instructor at any time, however, making an appointment will guarantee the instructor's availability at a specific time.

**SAFETY GLASSES MUST BE WORN IN
THE SHOP AREA AT ALL TIMES!!**

Applied Technology Division Information

Division Dean: Curt Pervier

Division Secretary: Lisa Hays

Division Office: Room 143-A Technical Center

Division Telephone: 432.685.4676 Fax: 432.685.6472

Program Chair: Chad Farris

Telephone: 432.563.8952

Students with Disabilities:

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must place documentation on file with the Counselor/Disability Specialist. Students with disabilities should notify Midland College prior to the beginning of each semester. Student Services will provide each student with a letter outlining any reasonable accommodations. The student must present the letter to the instructor at the beginning of the semester.

Midland College Non-Discriminatory Statement:

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individuals have been designated to handle inquiries regarding the non-discrimination policies: **Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu**; **Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu**. For further information on notice of non-discrimination, visit <http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> or call 1 (800) 421-3481.

Spanish

Midland College no discrimina por motivos de raza, color, nacionalidad, sexo, discapacidad, o edad en sus programas o actividades. Las siguientes personas han sido designadas para responder a cualquier pregunta o duda sobre estas políticas no discriminatorias: **Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu**; **Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu**. Para más información sobre estas políticas no discriminatorias, viste <http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> o al 1 (800) 421-3481.