

MIDLAND COLLEGE
Syllabus
AERM 1254 – AIRCRAFT COMPOSITES
SCH (2 Hours Lecture, 2 Hours Lab)
64 Hours

Course Description:	Fundamentals of mathematics, physics & drawings as they apply to aircraft principles & operations as required by the Federal Aviation Administration for airframe & powerplant mechanics.
Text References And Supplies:	<ol style="list-style-type: none">1. <i>A&P Technical General Textbook</i>, by Jeppesen, Current, Wing AERO2. <i>General Test Guide, ASA-AMG</i>, by Crane, Current Edition, Wing AERO3. <i>AC 43.13-1B/2B</i>, by ASA, or most Current Edition, Wing AERO4. <i>FAR Handbook for AMT, 0884873978</i>, BY Jeppesen, Current Edition, Wing AERO5. <i>Standard Aviation Maintenance Handbook EA-282-0, 0891002820</i>, by ASP, Current Edition, Wing AERO6. <i>Dictionary of Aeronautical Terms, 978-088487383-9</i>, by ASA, Current Edition, ACtech Books
Course Goals/ Objectives:	<p>Upon Successful completion of the course the student will:</p> <ol style="list-style-type: none">1. Extract roots & raise numbers to a given power.2. Determine areas and volumes of various geometrical shapes.3. Solve ratio, proportion & percentage problems.4. Perform algebra operations involving addition, subtraction, multiplications & division of positive & negative numbers.5. Apply the principles of simple machines, sound, fluid & heat dynamics; basic aerodynamics, aircraft structures; & theory of flight.6. Interpret aircraft drawings, symbols & system schematics.7. Draw sketches of repairs & alterations.8. Interpret blueprint information, graphs & charts.
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. You are expected to arrive for class on time. 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. If you are going to be absent from an exam, arrangements should be made prior to the absence. 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 and tests must be completed for the course.

**Evaluation of
Students:**

Grades

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

A (90-100)

B (80-89)

C (70-79)

D (0-69)

Shop/Lab Grading

80% For successful and prompt completion of project

10% For proper use and availability of hand tools

10% For SAFETY

Course

AERM 1315 AVIATION SCIENCE

Schedule:

Informal 25%

Section tests 25%

Laboratory (shop) procedures, safety & reports 25%

Comprehensive final examination 25%

Instructor

Chad Farris

Information:

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 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/ADA Statement:

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, visite <http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> o llame al 1 (800) 421-3481.