Aviation Meteorology
AIRP 1307

3 Semester Credit Hours

Course Description: Basic and advanced concepts of aviation meteorology in the study of temperature, pressure, moisture, stability, clouds, air, masses, fronts, thunderstorms, icing, fog and high altitude weather conditions. Also includes the collection, analysis and use of weather data for flight planning and in-flight avoidance of hazardous conditions.

Text, 1. *Aviation Meteorology* (Jeppesen Sanderson Training Products) latest edition by Peter F. Lester

3. *Aviation Weather Services* (AC 00-45E) U.S. Department of Transportation (FAA)
3. Other reference materials and supplies as assigned by the instructor.

Course Goals and Objectives: Upon successful completion of the course, the student will be able to:

1. Explain the basic atmospheric processes that produce weather.
2. Demonstrate proficiency in knowledge required for the Federal Aviation Administration Instrument and Commercial written tests.
3. Identify the weather hazards that pilots will encounter associated with flight.
4. Select the appropriate method to receive and analyze weather data.
5. Use meteorological information to conduct safe flight.

Student Contributions and Class Policies:

1. You are required to attend class. Roll will be taken at each class meeting. Un-excused absences will not be tolerated. In case of unavoidable absences, 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.

2. You are expected to arrive for class on time. Tardiness shows poor preparation and motivation. It is a gross discourtesy to the instructor and to the other members of the class to interrupt their instruction.
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3. If you are going to be absent from an examination, 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 Instructor.)

4. 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. Your instructor will “not” withdraw you from this course, it is your responsibility to complete the withdrawal process.

5. You must go through a formal procedure if you wish to drop a course. A student may withdraw from a course or from the College with a grade of W through the half-way point of any semester. After the half-way point of any semester, but no later than seven calendar days prior to final examinations, a student may withdraw from a course with a grade WP if passing or a grade of WF if failing. 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. This information is distributed to all students in the Midland College Professional Pilot Preparation Program.

6. All cell phones and pagers are to be turned to “off or vibrate” during class.

7. No food or drinks are allowed in the classroom.

8. Any student having special needs should bring those to the attention of the instructor as early as possible.

9. A “research paper” covering a “meteorological process” will be due by the date shown on the homework assignments handout. The paper will be at least 5 pages in length, 12 font, space and a half. All references must be quoted and footnoted.

Tardy: 1. For each three (3) times tardy in excess of 5 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.
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Absence:
1. Upon three (3) un-excused absences or the accumulation of six (6) absences or a lesser amount 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 The student should realize that a passing grade in the course will be jeopardized.
3. All time missed by the student must be made up before a passing grade may be recorded.
4. Make-up procedures of all classroom material missed will be made up in the same subject area. All lab or flight material missed will be made up in the same subject area.

Make-up Policy:
1. Punctual class attendance is required of all students registered at Midland College. No un-excused absence or “cuts” are allowed. Midland College, the Professional Pilot Preparation Program and the Federal Aviation Administration requires that a student make-up all classes and laboratory work covered during his absence, even in cases where 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.
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 with in two weeks after missed and prior to the final week of class. Exceptions shall require the approval of the instructor.
4. All make-up work will be made in the same subject area as the time missed whether it is lab, flight or class time. Make-up work for absences will not count for more than 75% of the normal grade given.
5. 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:

- 90 and above: A
- 80's: B
- 70's: C
- 60's: D
- Below 60: F

Lab grading:
Lab assignments are expected to be completed in accordance with the class schedule. Selected assignments will be graded on a “random” basis and will be collected at the beginning of the class the day following their “assignment”.
“Pop” quizzes will be averaged into the lab grade.

The Final Grade is based on the following percentages:

- Attendance: 10%
- Professionalism: 10%
- Labs & Pop Quizzes: 20%
- Stage Exams: 35%
- Final: 25%

To be eligible for graduation from the Professional Pilot Program with an associates degree, a grade of C or above is required for all AIRP or AVIM courses. Any AIRP or AVIM course grade with a D or F must be repeated. In order to qualify for an end-of-program interview with Mesa Airlines, the student must maintain an overall “B” average and may not have received more than 2 grades of “C” in all of the AIRP or AVIM speciality courses.
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3 Semester Credit Hours

Course: Professional Pilot Program
Aviation Meteorology (AIRP 1307)

Schedule: As Posted

SCANS Information: SCANS skills are taught and/or reinforced in aviation courses. The student must locate, read, interpret and understand instruction information and direction materials. The participant must communicate thoughts, ideas and information through verbal and written mediums. Practical arithmetic and mathematics will apply continually throughout Pilot preparation training. Listening, interpreting, and responding to verbal communications and instructions as well as speaking in response to questions will be a daily involvement. Thinking, reasoning, visualizing and problem solving are required assets to the pilot. The student/participant must display responsibility, discipline and honesty.

Instructor Information: Deon Christensen: Room 160 TC
Office Phone: (432) 686-4821
E-mail: dchristensen@midland.edu
Office Hours: As Posted

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

Technical Division Information:
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Division Secretary Jennifer Constable 685-4676
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