

Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.

COURSE SYLLABUS

AVIA 340

AVIATION WEATHER

COURSE DESCRIPTION

This course is a study of weather hazards, meteorological flight planning, aviation weather equipment and human factors as related to flight safety in all weather conditions.

RATIONALE

This course will help the student develop a better understanding of the atmosphere; the aviator's operating environment. Once the operating environment is understood, the student will then have the knowledge required to maximize aircraft performance, while minimizing exposure to weather hazards.

I. PREREQUISITE

For information regarding prerequisites for this course, please refer to the [Academic Course Catalog](#).

II. REQUIRED RESOURCE PURCHASE

Click on the following link to view the required resource(s) for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

III. RECOMMENDED RESOURCE

American Psychological Association. *Publication manual of the American Psychological Association* (Current ed.). Washington, D.C.: American Psychological Association.

IV. ADDITIONAL MATERIALS FOR LEARNING

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Blackboard [recommended browsers](#)
- D. Microsoft Word
- E. Free book: [Aviation Weather For Pilots and Flight Operations Personnel, AC 00-6A](#)

V. MEASURABLE LEARNING OUTCOMES

Upon successful completion of this course, the student will be able to:

- A. Demonstrate a working knowledge of the fundamentals of aviation weather.
- B. Correlate the effects of weather with flight operations.
- C. Analyze the availability and usage of aviation weather resources, both in the forecasting arena and also the various sources and products that are available to the pilot in order to conduct safe flight operations.
- D. Use the Internet to obtain useful training and operational weather information.
- E. Describe the legal requirements of familiarity with enroute weather required by the FAA before conducting a flight.
- F. Evaluate the real life ramifications of weather hazards by studying weather related aircraft accidents.

VI. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Textbook readings and presentations
- B. Course Requirements Checklist

After reading the Syllabus and [Student Expectations](#), the student will complete the related checklist found in Module/Week 1.

- C. Discussion Board Forums (2)

The student will complete 2 Discussion Board Forums throughout this course. The forums will be based on areas of discussion touched upon in the AOPA Online courses. Each forum consists of 2 parts: a thread and 2 replies. The thread is the student's 200-word response to the instructor's prompt and the replies are the student's responses to other students' threads. Each reply must have at least 150 words, demonstrate an understanding of the thread, and interact with the concepts discussed. Replies will not be personal in nature, but will simply discuss the subject from the author of the thread.

- D. AOPA Certificates and Reflections (4)

The student will complete 4 specific AOPA Weather Wise Online Interactive courses. The student will watch video presentations, interact with them, and then take a quiz for each course. Once the student has passed the quiz successfully, a completion certificate will be e-mailed to him/her from the website. Each certificate will be submitted to the instructor along with a 50-word summary of what the student learned.

- E. Case Study

The student will submit a 4–5-page Case Study on an assigned weather-related aircraft accident. Current APA format must be used with a minimum of 2 sources cited. The student will be assigned 1 of the 5 provided case studies no later than the end of Module/Week 2.

F. Quizzes (2)

The student is required to complete 2 quizzes in this course. The quiz format will be open-book/open-notes and consist of 25 multiple-choice and true/false questions. The student will have 1 hour to complete each quiz.

G. Final Exam

The student will be given 2 hours and 45 minutes to complete a comprehensive final exam. The exam format will be open-book/open-notes and consist of 40 multiple-choice and true/false questions, as well as an essay question. The student must provide between 250–300 words in response to the essay question.

VII. COURSE GRADING AND POLICIES

A. Points

Course Requirements Checklist	10
Discussion Board Forums (2 at 100 pts ea)	200
AOPA Certificates and Reflections (4 at 50 pts ea)	200
Case Study	200
Quizzes (2 at 100 pts ea)	200
Final Exam	200
Total	1010

B. Scale

A = 900–1010 B = 800–899 C = 700–799 D = 600–699 F = 0–599

C. Disability Assistance

Students with a documented disability may contact Liberty University Online’s Office of Disability Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport.

COURSE SCHEDULE

AVIA 340

Textbook: Lester, *Aviation Weather* (2013).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Lester: chs. 1, 16 1 presentation	Course Requirements Checklist Class Introductions AOPA Certificate and Reflection 1	10 0 50
2	Lester: chs. 2–4 1 presentation	DB Forum 1	100
3	Lester: chs. 5–7 1 presentation	AOPA Certificate and Reflection 2 Quiz 1	50 100
4	Lester: chs. 8–10 1 presentation	AOPA Certificate and Reflection 3	50
5	Lester: chs. 11–13 1 presentation	DB Forum 2	100
6	Lester: chs. 14–15 1 presentation	AOPA Certificate and Reflection 4 Quiz 2	50 100
7	1 presentation 1 case study	Case Study	200
8	1 presentation	Final Exam	200
TOTAL			1010

DB = Discussion Board

NOTE: Each course week (except Module/Week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final week ends at 11:59 p.m. (ET) on Friday.