

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 211

ADVANCED AVIATION THEORY

COURSE DESCRIPTION

This course will introduce students to the idea of aviation risk management. Course content will include discussions on aircraft systems, cross-country flying, elements of risk management, and automation.

RATIONALE

The purpose of this course is to provide new students with foundational tools that will help them to identify hazards and assess risks during flight operations.

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. ADDITIONAL MATERIALS FOR LEARNING

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Blackboard [recommended browsers](#)
- D. Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES

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

- A. Apply mental tools/checklists that help identify and mitigate problems encountered during flight.
- B. Recognize how attitudes and personal minimums impact professional and ethical decision making.
- C. Explain how NTSB accident data relates to commonly encountered VFR flight scenarios.

- D. Analyze a proposed flight using a risk assessment tool.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Course Requirements Checklist

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

- B. Discussion Board Forums (3)

Discussion boards are collaborative learning experiences. Therefore, the student is required to provide a thread in response to the provided prompt for each forum. Each thread must be at least 250 words and demonstrate course-related knowledge. In addition to the thread, the student is required to reply to at least 2 other classmates' threads. Each reply must be at least 100 words.

- C. VFR Scenario Essays (3)

The student will be given scenarios to read and analyze. A set of questions is given for each scenario that the student must answer.

- D. Navigation Log with Risk Assessment

The student will complete a 6-page/slide presentation on a sample flight, including a complete risk assessment. A sample is provided, and this assignment can be completed in the program of the student's choice (PowerPoint, Word, etc.). The student will complete at least 250 words of comments and analysis on Page 6 of the assignment.

- E. Safety Surveys (2)

The student will answer sets of short answer and essay questions.

- F. Quizzes (3)

Each quiz will cover the Reading & Study material for the modules/weeks in which it is assigned. Each quiz will be open-book/open-notes, contain 10 multiple-choice and true/false questions and 2 essay questions, and have a 2-hour time limit. Each essay question must be answered in 50–75 words.

- G. Final Exam

The Final Exam will be a cumulative exam based on the Reading & Study materials of the entire course. This exam will be open-book/open-notes, contain 50 multiple-choice and true/false questions, and have a 2-hour time limit.

VII. COURSE GRADING AND POLICIES

A. Points

Course Requirements Checklist	10
Discussion Board Forums (3 at 50 pts ea)	150
VFR Scenario Essays (3 at 100 ea)	300
Navigation Log with Risk Assessment	200
Safety Surveys (2 at 50 pts ea)	100
Quizzes (3 at 50 pts ea)	150
Final Exam	100
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 211

Textbook: FAA, *Risk Management Handbook* (2009).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	FAA: Chapter 1, <i>Defining Elements of Risk Mgmt.</i> (8) Content Overview	Course Requirements Checklist Class Introductions Safety Survey	10 0 50
2	FAA: Chapter 2, <i>Human Behavior</i> (5) NTSB website	DB 1 VFR Scenario 1	50 100
3	FAA: Chapter 3, <i>Identifying Hazards and Mitigating Risk</i> (9) AOPA and the Nall Report	Quiz 1	50
4	FAA: Chapter 4, <i>Assessing Risk</i> (4)	DB 2 VFR Scenario 2	50 100
5	FAA: Chapter 5, <i>ADM: A Basic Staple</i> (13)	Quiz 2	50
6	FAA: Chapter 6, <i>Single-Pilot Resource Mgmt.</i> (13)	DB 3 VFR Scenario 3	50 100
7	FAA: Chapter 7, <i>Automation</i> (10)	Quiz 3 NavLog w Risk Assessment	50 200
8	FAA: Chapter 8, <i>Risk Mgmt. Training</i> (6)	Exam Safety Survey	100 50
TOTAL			1010

FAA = Federal Aviation Administration

DB = Discussion Board

NOTE: Each course module/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 module/week ends at 11:59 p.m. (ET) on **Friday**.

NOTE: There will be a deduction of fifty points from the total accumulated points for each assignment not turned in by the end of the term.