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 <u>not</u> be used to purchase course materials.

COURSE SYLLABUS

AVIA 300
AVIATION SAFETY

COURSE DESCRIPTION

This course provides the student with a detailed introduction into aspects of aviation safety, risk management, and the associated components of pilot psychology, human factors and accident trends, factors and analysis.

RATIONALE

Safety is important in every aspect of aviation, and pilots and maintainers are an integral part of creating a culture of safety in their aircrafts and organizations. Considering this, the aviation student must learn all aspects of safety and understand how different agencies work together to lower accident rates.

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. Describe safety concepts.

B. Examine aircraft accident reports while applying lessons learned to current operations.

C. Apply the principles of aviation safety programs to his/her organization.

D. Discuss the merits of aviation safety objectives.

E. Explain the different accident prevention methodologies.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

A. Textbook readings and lecture presentations

B. Course Requirements Checklist

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

C. Discussion Board Forums (2)

Discussion boards are collaborative learning experiences. Therefore, after reading the topic for each forum, the student will post a thread of 300–400 words. In addition to the thread, the student will post replies of 150–200 words to 2 other students' threads.

D. Book Report

The student will write a report with a 2-page body on either the FAA Risk Management Handbook or the FAA Operator's Manual: Human Factors in Aviation Maintenance (download free from FAA.gov). The report must use current APA format and include a title page and a reference page that cites the Handbook or Operator's Manual and any additional sources, if utilized.

E. Research Paper Abstract

The student will write a 150–250-word abstract for the Research Paper. The abstract must introduce the topic that the student is writing about, touch on the main points of the paper, and offer a concise version of the conclusion. The abstract must follow current APA format and include a title page.

F. PowerPoint Presentation

The student will submit a PowerPoint presentation based on the accident of aircraft N200WQ, Colgan Airlines Flight 3407 on February 12, 2009 or N963AS, Alaska Airlines Flight 261 on January 31, 2000. Information about these accidents can be found in the NTSB database (link provided in the course) and other resources. The presentation must include a discussion of the pilot's experience and maintenance practices, details of the accident, causal factors, and a professional recommendation for how the crash could have been avoided. The integration of YouTube links and other graphics is encouraged. The presentation must be 10–20 slides. Any references cited must be formatted according to current APA style.

G. Research Paper

The student will write a research paper with a 5-page body on a topic that is related to any area of aviation safety. The paper must be written in Microsoft Word, adhere to current APA format, and include a title page, an abstract, and a reference page. It must cite at least 3 academic resources (books, journals, articles, etc.). A sample paper is provided in order to show how the paper must be structured.

H. Quizzes (7)

The student will complete 7 open-book, open-notes quizzes. These assessments will include 20 multiple-choice and true/false questions. Each quiz will be based on the material from the assigned module/week's Reading & Study. The student will have 1 hour and 30 minutes to complete each quiz.

VI. COURSE GRADING AND POLICIES

A. Points

Course Requirements Checklist		10
Discussion Board Forums (2 at 50 pts ea)		100
Book Report		150
Research Paper Abstract		50
PowerPoint Presentation		100
Research Paper		250
Quizzes (7 at 50 pts ea)		350
	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 300

Textbook: Cusick, Cortes & Rodrigues *Commercial Aviation Safety* (2017).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Cusick, Cortes & Rodrigues: ch. 5 3 websites	Course Requirements Checklist Class Introductions Quiz 1	10 0 50
2	Cusick, Cortes & Rodrigues: ch. 2	Quiz 2	50
3	FAA Risk Management Handbook: chs. 1–4 2 websites	Book Report Quiz 3	150 50
4	Cusick, Cortes & Rodrigues: chs. 3-4	DB Forum 1 Research Paper Abstract Quiz 4	50 50 50
5	Cusick, Cortes & Rodrigues: ch. 6	PowerPoint Presentation Quiz 5	100 50
6	Cusick, Cortes & Rodrigues: ch. 12	DB Forum 2 Quiz 6	50 50
7	3 presentations	Research Paper	250
8	FAA: "Hazardous Attitudes" FAAST: "Dirty Dozen" 2 websites	Quiz 7	50
		TOTAL	**1010**

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**.