

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 320

INSTRUMENT FLIGHT

COURSE DESCRIPTION

This course will provide basic instrument flight training. The course will require approximately 35 hours and will include a combination of both aircraft and simulator flight training. The student will gain an in-depth knowledge of Air Traffic Control procedures, airway navigation, and both precision and non-precision instrument approaches. This course will prepare the student for the FAA Instrument Practical Test.

RATIONALE

The purpose of this course is to integrate the information and skills learned in the Instrument Ground course with the actual in-flight requirements of the FAA Part 141 instrument flight training syllabus. Completion of this course leads to an endorsement to take the FAA Instrument Practical examination.

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. Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES

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

- A. Demonstrate multi-leg cross country flights.
- B. Demonstrate thorough knowledge of the E6B flight computer.
- C. Demonstrate thorough knowledge of aircraft performance charts.
- D. Pass Stage 4 Check Flight.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Textbook readings and 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, the student is required to provide a thread in response to the provided prompt for each forum. Each thread must be 250 words and demonstrate course-related knowledge. In addition to the thread, the student is required to reply to 2 other classmates' threads. Each reply must be 100 words.
- D. Problem-Solving Exercises (3)
The student must complete the Problem-Solving Exercises using the data provided.
- E. Report
The student will write a 3-page research-based paper in current APA format that focuses on instrument flight. The paper must include at least 2 references in addition to the course textbooks and the Bible.
- F. Quizzes (4)
Each quiz will cover the Reading & Study material for the assigned modules/weeks. Each quiz will be open-book/open-notes, contain 20 true/false and multiple-choice questions and 2 essay questions, and have a 1-hour and 30-minute time limit.
- G. Progress Question (7)
The student will account for the number of ground, flight, and/or simulator activities completed at the Flight Training Affiliate every 7 days. The student will receive full credit for answering the question regardless of the number of activities that were completed.
- H. Certificate Submission
In order to pass this class the student must complete Instrument training at a Flight Training Affiliate. Once complete, the student must submit either a copy of the graduation certificate, license/certificate (front and back), or temporary certificate if applicable.

VI. COURSE GRADING AND POLICIES

A. Points	
Course Requirements Checklist	10
Discussion Board Forums (2 at 30 pts ea)	60
Problem-Solving Exercises (3 at 45 pts ea)	135
Report	60

Quiz 1	(Modules 1–2)	50
Quiz 2	(Modules 3–4)	50
Quiz 3	(Modules 5–6)	50
Quiz 4	(Modules 7–8)	50
Progress Questions	(7 at 5 pts ea)	35
Certificate Submission		510
	Total	1010

B. Scale

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

C. Late Assignment Policy

If the student is unable to complete an assignment on time, then he or she must contact the instructor immediately by email.

Assignments that are submitted after the due date without prior approval from the instructor will receive the following deductions:

1. Late assignments submitted within one week of the due date will receive a 10% deduction.
2. Assignments submitted more than one week late will receive a 20% deduction.
3. Assignments submitted two weeks late or after the final date of the course will not be accepted.
4. Late Discussion Board threads or replies will not be accepted.

Special circumstances (e.g. death in the family, personal health issues) will be reviewed by the instructor on a case-by-case basis.

D. 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 320

Textbook: Federal Aviation Administration, *Instrument Procedures Handbook* (2014).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Instrument Procedures Handbook: ch. 1 1 presentation 1 King Course Website: "Developing Instrument Skills," Knowledge 1 - 4	Course Requirements Checklist Class Introductions Discussion Board Forum 1 Progress Question 1	10 0 30 5
2	Instrument Procedures Handbook: ch. 2 1 presentation 1 King Course Website: "Polishing Instrument Skills," Knowledge 1 - 4	Quiz 1 Progress Question 2	50 5
3	Instrument Procedures Handbook: ch. 3 1 presentation 1 King Course Website: "GB, HDB, and VOR Navigation," Knowledge 1 - 4	Discussion Board Forum 2 Problem-Solving Exercise 1 Progress Question 3	30 45 5
4	Instrument Procedures Handbook: ch. 4 1 presentation 1 King Course Website: "Holding Pattern and DME," Knowledge 1 - 4	Quiz 2 Progress Question 4	50 5
5	Instrument Procedures Handbook: ch. 5, p. 1-26 1 presentation 1 King Course Website: "Precision and Non Precision Approach," Knowledge 1 - 4	Problem-Solving Exercise 2 Progress Question 5	45 5
6	Instrument Procedures Handbook ch. 5, p. 27-66 1 presentation 1 King Course Website: "Automation, ATC, and Other Approaches," Knowledge 1 - 4	Quiz 3 Progress Question 6	50 5
7	Instrument Procedures Handbook: ch. 6 1 presentation 1 King Course Website: "IFR Cross Country," Knowledge 1 - 3	Problem-Solving Exercise 3 Report Progress Question 7	45 60 5
8	Instrument Procedures Handbook: ch. 7 1 presentation 1 King Course Website: "Practical Test Preparation," Knowledge 1	Quiz 4 Certificate Submission	50 510
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**.