

CATALOG INFORMATION

Dept and Nbr: AERO 50L      Title: AIR BASIC CRS LAB  
Full Title: Airplane Pilot Basic Course Lab  
Last Reviewed: 5/8/1998

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	2.00	Lab Scheduled	3.00	8	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	4.00		Contact Total	70.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 105.00

Title 5 Category: AA Degree Applicable  
Grading: Grade or P/NP  
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP  
Also Listed As:  
Formerly:

**Catalog Description:**  
Lecture and laboratory which allows for the expansion of material presented in Aeronautics 50; emphasis on practical application of subject matter through student use of aircraft simulators and audio visual aids. Additional drills and exercises to include copying and understanding ATC clearances, flight communication management and aircraft control.

**Prerequisites/Corequisites:**

**Recommended Preparation:**  
Enrollment in Aero 50, or possession of an equivalent FAA Certification or rating.

**Limits on Enrollment:**

**Schedule of Classes Information:**  
Description: Expansion of the material presented in Aero 50. (Grade or P/NP)  
Prerequisites/Corequisites:  
Recommended: Enrollment in Aero 50, or possession of an equivalent FAA Certification or rating.  
Limits on Enrollment:

Transfer Credit: CSU;  
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective: Fall 1981	Inactive: Spring 2012
<b>UC Transfer:</b>		Effective:	Inactive:

### **CID:**

**Certificate/Major Applicable:**  
Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Successful completion of this course will provide the student with the academic skills necessary to act as a pilot in an aircraft. The course is designed to meet the certification requirements set forth in the F.A.R., parts 61 and 141 for aeronautical knowledge and flight proficiency of private pilots.

Phase I: Basic Aeronautics Lab, 28 hours. Objective:

To supplement and explore the student's basic understanding of the aeronautical concepts associated with this phase through lab and exercises on this material.

Phase I Completion Standards:

At the completion of this phase, the student will be familiar with the course content and will be able to pass the Phase I written exam.

Phase II: Flight Operations, 28 hours. Objectives:

To introduce preflight planning and inflight operational considerations.

Phase II Completion Standards:

At the completion of this phase, the student will be familiar with the course content and will be able to pass the Phase II written exam.

Phase III: Airplane Pilot Basic Course Lab Review, Final Exam Review, 8 hours. Objectives:

To review Phase I and II course content as preparation for the course final exam.

Phase III Completion Standards:

All questions in the final course exam are answered and the course final test must be passed with a score of 70% or greater.

### **Topics and Scope:**

Phase I (Basic Aeronautics Lab, 28 hours):

1. Aeromedical factors

2. Aerodynamics
  3. Aircraft instruments
  4. Aircraft engines and operations
- Phase II (Flight Operations, 28 hours):
1. Weather theory and services
  2. Navigation
  3. Cross country planning
  4. Weight and balance considerations
  5. ATC procedures
  6. Flight by reference to instruments

**Assignment:**

Weekly reading and homework problems.

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework

Writing  
10 - 15%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams

Problem solving  
10 - 15%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Performance exams

Skill Demonstrations  
10 - 15%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion

Exams  
60 - 75%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

Instrument Flying Handbook U.S. GOVT. pub., 1980 Doc #AC 61-27C  
 Aviation Weather, 1976, AC00-6A  
 Aviation Weather Services, 1995, AC00-45D  
 FAR's, Current Year  
 Aeronautical Information Manual, U.S. Govt. Pub., Current Year

