



## ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 199070

UC TRANSFER:

Not Transferable

## PREREQUISITES:

## COREQUISITES:

## STUDENT LEARNING OUTCOMES:

1. Students should pass the Meteorology and navigation phases of the Private Pilot written exam, and be prepared to progress to higher pilot ratings.
2. This course and AFT 131 cover all information on the FAA Private Pilot written test.

## TOPICS AND SCOPE:

Inactive Course: 05/10/2010

- 1 1 Class organization and introduction to field of aviation. Procedure and sequence for obtaining Federal Aviation Administration (FAA) pilot ratings. Basic aircraft components and operation, flight line safety. Lift, drag, thrust and gravity, and their influence on flight.
- 2 1.5 Aerodynamics of maneuvering flight. Aircraft stability
- 3 1.5 Airports; lighting, runway and taxiway markings, controlled vs. uncontrolled airports. Airspace; weather, speed, and equipment restrictions for operation in controlled and uncontrolled airspace.
- 4 1.5 Radio Communications and Radar Services. Pitot-Static and Gyro instruments.
- 5 1.5 Aircraft Fuel and Electrical systems; Engines and propellers. Aircraft performance charts.
- 6 1.5 Weight and Balance. Test on Private Pilot Manual, Chapters 1-3.
- 7 1.5 Basic weather theory. Weather patterns and hazards.
- 8 1.5 Printed weather reports and forecasts. Graphic weather information.
- 9 1 FAR Part 1 Definitions and Abbreviations.  
.5 FAR Part 61 Certification of Pilots and Flight Instructors.  
1.5 FAR Part 91 General Operation and Flight Rules
- 10 1.5 Aeronautical Charts  
Test on Chapters 4 & 5, and Federal Aviation Regulations.
- 11 3 Flight Computers
- 12 1.5 Pilotage and Dead Reckoning.

- 1.5 Sources of Flight Information
- 13 1.5 VHF Radio Navigation
- Low Frequency (ADF) Radio Navigation.
- 14 1.5 Flight Planning
- Test on Chapters 6 & 7
- 15 3 Flight Planning
- 16 1.5 Review flight planning assignment.
- 1.5 Factors affecting decision making.
- 17 1.5 Aviation Physiology.

Course Review.

- 18 3 Course Final Exam

#### ASSIGNMENTS:

Readings and Writing Assignments:

Reading Texts: 1. Glaeser, Gum Walters: An Invitation to Fly

2. U.S. Gov't Printing: Private Pilot

Question Book

3. As assigned by the Instructor

Writing: The student shall be required to complete written examination questions that demonstrate an ability to apply theory and concepts to potential situations.

Outside Assignments:

The student shall be given outside reading assignments from the text and other related materials such as the "Airmens Information Manual," and "Federal Aviation Regulations."

#### COURSE OBJECTIVES:

Scope: A collegiate level course in the fundamentals of aviation.

Methodology includes lecture, audio visual presentations and student participation. The student will be required to complete outside study assignments.

Objective 1: The student shall understand the fundamentals of aviation by demonstrating satisfactory knowledge of regulations, navigation, Aerodynamics, Communications, Engines and Performance.

Objective 2: The student will be prepared to pass the Federal Aviation Administrations Private Pilot Written Test.

Objective 3: The student shall develop the necessary background to develop and use good judgement required in aviation and flight situations.

#### METHODS OF INSTRUCTION:

Lecture/Demonstrations supplemented with current and appropriate Audio

Visual aids and outside readings and writing appropriate to the subject.

The instructor shall use test results to determine the effectiveness of instruction and outside assignments in meeting the objectives of the lesson.

#### REPRESENTATIVE TEXTBOOKS:

Jeppesen Sanderson Private Pilot Manual

Jeppesen Sanderson Federal Aviation Regulations

Other Materials Required to be Purchased by the Student:

CP-1 Plotter, E6-B Flight Computer, SFO Sectional Chart.

#### SUPPLEMENTAL DATA:

Basic Skills: N

Classification: I

Noncredit Category: Y

Cooperative Education:

Program Status: 2 Stand-alone  
Special Class Status: N  
CAN:  
CAN Sequence:  
CSU Crosswalk Course Department: AFT  
CSU Crosswalk Course Number: 121  
Prior to College Level: Y  
Non Credit Enhanced Funding: N  
Funding Agency Code: Y  
In-Service: N  
Occupational Course: D  
Maximum Hours:  
Minimum Hours:  
Course Control Number: CCC000456039  
Sports/Physical Education Course: N  
Taxonomy of Program: 095000