College of the Sequoias
COLLEGE ASSOCIATE DEGREE COURSE OUTLINE

SUBJECT AREA AND COURSE NUMBER: AERO 215

COURSE TITLE: FLIGHT INSTRUCTOR TRAINING

Units: 8

TOP Code: 0950.00 - Aeronautical & Aviation Techno

Cross-Listed Courses:

CATALOG COURSE DESCRIPTION:

The flight instructor training course will give the student the necessary skills and training leading to issuance of both the certified flight instructor and instrument instructor FAA certificate. In addition, the student will gain experience necessary to instruct in the Robinson helicopter as per Special Federal Aviation Regulation #73. This course is approved for Distance Education format.

REQUISITES:

Prerequisites:

and

AERO 214 or equivalent college course with "C" or better

Limitations on Enrollment:

FIELD TRIP REQUIREMENTS: Required

LECTURE HOURS PER WEEK: 7

TOTAL LECTURE HOURS PER SEMESTER: 122.5

LAB HOURS PER WEEK: 3

TOTAL LAB HOURS PER SEMESTER: 52.5

ACTIVITY HOURS PER WEEK:

TOTAL ACTIVITY HOURS PER SEMESTER:

TOTAL HOURS PER WEEK: 10

TOTAL CONTACT HOURS PER SEMESTER: 175

GRADING: -

REPEATABLE:

TRANSFERABLE:

No Transfer Status Selected

METHODS OF INSTRUCTION:

Methods of instruction may include, but are not limited to, the following:

* Laboratory
* Lecture and/or Discussion
* Distance Education
METHODS OF EVALUATION:

A student's grade will be based on multiple measures of performance unless the course requires no grade. Multiple measures may include, but are not limited to, the following:

- Skill demonstrations
- Problem solving assignments or activities
- Written essays or extended papers
- Oral presentations
- Problem solving quizzes or exams

COURSE TOPICS:

Outline Of Topics:
The following topics are included in the framework of the course but are not intended as limits on content. The order of presentation and relative emphasis will vary with each instructor.

- A. Applicable Federal Aviation Regulations for flight instructor and instrument instructor
- B. Fundamentals of Instructing
- C. Teaching Methods
- D. Endorsements
- E. Lesson Plans
- F. Instructor tools
- G. Flight Instructor decision making
- H. Flight Instructor Emergency Procedures

OUTCOMES:

Course Objectives
The main concepts for this course will ask students to...

1. Demonstrate through written tests, practical tests, and appropriate records, that he/she meets the knowledge, skill, and experience requirements necessary to obtain a Flight Instructor Certificate and Flight Instructor with an instrument rating.
2. Student will demonstrate knowledge of aviation instructional theory and technique to include; teaching methods, the learning process, human behavior, effective communication, lesson plan creation, instructor tools, flight instructor decision making, and instructor emergency procedures.
3. Student will learn to safely and effectively teach students to perform in-flight maneuvers to include; preflight preparation, airport and heliport operations, hovering maneuvers, takeoffs, landings and go-arounds, performance maneuvers, navigation, emergency operations, special operations, instrument flight, navigation and approach by reference to instrument, instrument holding techniques and emergency operations while IFR.

Student Learning Outcomes
Given Satisfactorily complete an oral and practical exam conducted by the FAA (Or Designated Representative). students will be able to

- Skill demonstrations
- Problem solving assignments or activities
- Written essays or extended papers
- Oral presentations
- Problem solving quizzes or exams

Given Upon completion of Practial Exam, student will receive additional training to instruct in the Robinson R-22 and Robinson R-44 aircraft to meet SFAR 73 (Special Federal Aviation Regulation #73 requirements). students will be able to

- Skill demonstrations
- Problem solving assignments or activities
- Written essays or extended papers
- Oral presentations
- Problem solving quizzes or exams

Given Pass a written exam administered by the FAA where the student will demonstrate aeronautical knowledge
with a passing score of 80% or greater students will be able to

Skill demonstrations
Problem solving assignments or activities
Written essays or extended papers
Oral presentations
Problem solving quizzes or exams

Given a helicopter, the student will perform the approved areas of operation for an instructor rating to an FAA designated examiner. The flight shall be conducted to the FAA approved standards for instructor pilot helicopter. The student will demonstrate mastery of the aircraft while teaching maneuvers to a simulated student with the successful outcome of each task performed never seriously in doubt. The student will demonstrate sound judgement and apply instructional techniques to scenarios created by the FAA examiner. students will be able to

Skill demonstrations
Problem solving assignments or activities
Written essays or extended papers
Oral presentations
Problem solving quizzes or exams

Institutional Outcomes

1. Locate, evaluate, and use information from a variety of sources to take action or make a decision.

Assignments

Lab Content:
Lab Content

A. Preflight preparation
B. Preflight procedures
C. VFR Flight Instruction
D. Instrument Flight Instruction
E. Emergency recognition and recovery
F. Full down autorotation training
G. SFAR 73
H. Postflight procedures
  I. Air Traffic Control clearances and procedures
J. Navigation Systems
K. Navigation Technique and practice
L. Emergency procedures

TEXTS AND SUPPLIES:
Textbooks may include, but are not limited to:

TEXTBOOKS:
2. n/a. Private Pilot Maneuver Guide, Blue Sky Aviation, 2007,

MANUALS:

PERIODICALS:

MATERIALS FEE: $0

OTHER:
Address the following questions:

**Need/Justification**

How does the DE delivery of this class support the mission of the College? The course is a federally approved license, leading to a federally recognized pilot rating. By providing distance education, students from across the United States could participate in this program and receive a substantial benefit.

**College of the Sequoias affirms that our mission is to help our diverse student population achieve their transfer and/or occupational objectives and to advance the economic growth and global competitiveness of business and industry within our region.**

Students are required to pass an FAA medical exam prior to enrollment in the flight training portion, demonstrating that they have no disabilities.

**College of the Sequoias is committed to supporting students' mastery of basic skills and to providing programs and services that foster student success.**

This course will utilize the interactive video/audio using CCC Confer technology or interactive telecast for live real-time instruction. Students will use either smart classrooms OR the CCC Confer technology to deliver the class through the internet in real-time with audio/video and computer application sharing. Students will communicate in real time through the telephone and/or internet chat. The blackboard system will be used to supplement the class through transfer of assignments, lesson presentations and handouts.

**Course Quality Standards:** The same standards of course quality shall be applied to distance education as are applied to traditional classroom courses (Title 5, 55202). Identify any instructional method in the original course outline that must be adapted for distance education delivery. If there is a difference between instructional methods in a traditional face-to-face class and distance education delivery of the class, explain how you will maintain the quality of instruction. For example, if the original course outline calls for debate, how will you arrange for debate in the distance education environment?

**Regular, effective contact:**

Please describe how you will ensure and document regular, effective contact with and among your students. Please include information about the types and frequency of your communication, including feedback to students on assignments, notifying students about how to contact you, notifying students about any unexpected instructor absence or expected delay in communications. Please refer to the COS Regular Effective Contact Policy.

**Discussion area/bulletin board** - Daily (Students will check the Bulletin Board for new assignments and be asked to discuss materials relevant to their reading). Lesson presentations will be available for download, along with other instructional materials.

**E-mail** - As Needed (Students will be allowed to ask specific questions and correspond with instructor via e-mail)

**Orientation Sessions** - Once prior to class beginning. Will allow students to meet instructors and each other, as well as answer any questions students may have.

**Other (please describe below)** - FAA Written Exams must be conducted at FAA approved testing centers at end-of-course.

**Workshops** - One-on-one Flight instruction will be provided to each student and conducted daily (Or
as required) to meet course objectives.

**Written Correspondence** - Daily: Students will be asked to submit written exercises to instructor regularly thru Blackboard.

**Honors Course Outline Addendum**

**ORIGINATOR:** Larry Dutto

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