

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

_____ Transfer course X A.A. degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: AERONAUTICAL SCIENCES 85
Commercial Pilot Certification

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS:

This course gives credit for flight training, not connected with Palomar College, which typically consists of 100 hours of flight instruction (after the Private and Instrument Rating), as well as 10 hours of personalized ground instruction from a certified flight instructor.

BASIC SKILLS REQUIREMENTS:

Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Upon presentation of a Commercial Pilot Certificate, the student will be given credit (no grade). Flight training is to be completed off campus with an F.A.A. certified flight instructor of the student's choice and at the student's own expense. The Palomar Community College District accepts no responsibility or liability for the flight training obtained from private instructors. The student should register for this course in the semester during which the training is to be completed. Grading: Credit/No Credit only.

SPECIFIC COURSE OBJECTIVES:

Upon completion of the flight and ground instruction, the successful student will be able to:

1. to take the Federal Aviation Administration's practical test for Commercial Pilot-Airplane.

2. analyze and explain solutions to common situations which occur during the typical charter/air taxi flight.
3. identify hazardous flight situations and apply principles learned to avoid them.
4. evaluate and justify his/her selection of routes for typical charter/air taxi flights.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Preflight Duties
 - A. Weight & Balance
 - B. Line Inspection
 - C. Servicing
- II. Flight at Slow Airspeeds
 - A. With Distractions
 - B. Recognition & Recovery From Stall
 1. From Straight & Level
 2. From Turns
- III. Takeoffs and Landings
 - A. Normal
 - B. Crosswind
 - C. Maximum Performance
 1. Short Field
 2. Soft Field
- IV. Complex Aircraft Operations
 - A. Retractable Landing Gear
 - B. Flaps
 - C. Constant Speed Propellers
- V. Simulated Emergency Procedures
 - A. Power Loss
 - B. Inflight Fire
 - C. Engine Out (Multiengine Aircraft)
 - D. Equipment Malfunctions
- VI. Commercial Flight Maneuvers
 - A. Chandells
 - B. Lazy Eights

REQUIRED READING:

As required by the student's FAA certified flight instructor and the student's chosen flight school. Typical readings include:

Cessna Aircraft Co. The Cessna Pilot Center Flight Training Materials. Wichita, KN: Cessna Aircraft Co., 1999.

Kershner, William. The Advanced Pilot's Flight Manual, 6th ed. Ames, IA: Iowa State University Press, 2000.

SUGGESTED READING: None

REQUIRED WRITING:

None. This certificate requires demonstration of skills as outlined under "Content in Terms of Specific Body of Knowledge."

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

As assigned by the student's flight instructor - flight planning and study of specific parts of the required readings.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply.

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

Credit will be given upon presentation of the Commercial Pilot Certificate.

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON:

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SIGNATURES ON FILE