



MASTER COURSE OUTLINE

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COURSE TITLE

SIMULATOR TRAINING / INSTRUMENT TRAINING

GENERAL COURSE INFORMATION

Dept.: AVF

Course Num: 276

(Formerly:)

CIP Code: 49.0102

Intent Code: 22

Program Code:

Credits: 0.5-1

Total Contact Hrs Per Qtr.: 5.5-11

Lecture Hrs: 5.5-11

Lab Hrs:

Other Hrs:

Distribution Designation: General Elective (GE)

COURSE DESCRIPTION (as it will appear in the catalog)

Designed to fit the individual and particular needs of each pilot in Instrument Training, refresher or FAA currency requirements.

PREREQUISITES

Instructor Approval

TEXTBOOK GUIDELINES

FAA-H-8083-15

COURSE LEARNING OUTCOMES

Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills:

1. Operate the aircraft on instruments at an improved level of proficiency.

INSTITUTIONAL OUTCOMES

IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

COURSE CONTENT OUTLINE

Selected from below and designed on demand for each student, dependent on requirements.

Ground Phase

- A. Obtaining Weather Information
- B. Cross-Country Flight Planning
- C. Aircraft Systems Related to IFR Operations
- D. Aircraft Flight Instruments and Navigation Equipment
- E. Instrument Cockpit Check

Air Traffic Control Clearances and Procedures

- A. Air Traffic Control Clearance
- B. Compliance with Departure, Enroute, and Arrival Procedures and Clearances

C. Holding Procedures

Flight by Reference to Instruments

- A. Straight-And-Level Flight
- B. Change of Airspeed
- C. Constant Airspeed Climbs and Descents
- D. Rate Climbs and Descents
- E. Timed Turns to Magnetic Compass Headings
- F. Steep Turns
- G. Recovery from Unusual Flight Attitudes

Navigation Aids

- A. Intercepting and Tracking VOR/VORTAC Radials and DME Arcs
- B. Intercepting and Tracking NDB Bearings
- C. Use of GPS

No-Gyro Procedures

- A. No-Gyro Radar Vectoring and Approach Procedures

Instrument Approach Procedures

- A. VOR/VORTAC Instrument Approach Procedure
- B. NDB Instrument Approach Procedure
- C. ILS/GPS Instrument Approach Procedure
- D. Missed Approach Procedures
- E. Circling Approach Procedure
- F. Landing from a Straight-In Or Circling Approach Procedure

DEPARTMENTAL GUIDELINES *(optional)*

Evaluation is by demonstration of instrument and navigational skills in the trainer.

Grading:

Satisfactory performance of selected maneuvers. _____ Pass

Unsatisfactory performance of selected maneuvers. _____ Fail

DIVISION CHAIR APPROVAL

DATE