



MASTER COURSE OUTLINE

Prepared By: Gregory Crane

Date: January 2014

COURSE TITLE

FLIGHT (Alternate)

GENERAL COURSE INFORMATION

Dept.: AVF

Course Num: 190/290

(Formerly:)

CIP Code: 49.0102

Intent Code: 22

Program Code:

Credits: 0 - 4

Total Contact Hrs Per Qtr.:5-44

Lecture Hrs: 5-44

Lab Hrs:

Other Hrs:

Distribution Designation: General Elective

COURSE DESCRIPTION (as it will appear in the catalog)

Provides additional aircraft flight time to allow the student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique.

PREREQUISITES

AVF 141

TEXTBOOK GUIDELINES

FAA-H-8003-3

COURSE LEARNING OUTCOMES

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

1. Demonstrate an increase in flight proficiency or complete a course of study

INSTITUTIONAL OUTCOMES

IO1 **Communication:** Students will be able to communicate clearly and effectively

COURSE CONTENT OUTLINE

- I. GROUND OPERATIONS
 - A. Visual Inspection
 - B. Cockpit Management
 - C. Starting Engine
 - D. Taxiing
 - E. Pre-Takeoff Check
- II. AIRPORT AND TRAFFIC PATTERN OPERATIONS
 - A. Radio Communications and ATC Light Signals
 - B. Traffic Pattern Operations
 - C. Airport and Runway Marking and Lighting

- III. TAKEOFFS AND CLIMBS
 - A. Normal Takeoff and Climb
 - B. Crosswind Takeoff and Climb
 - C. Short-Field Takeoff and Climb
 - D. Soft-Field Takeoff and Climb

- IV. CROSS-COUNTRY FLYING
 - A. Pilotage and Dead Reckoning
 - B. Radio Navigation
 - C. Diversion to Alternate
 - D. Lost Procedures

- V. FLIGHT BY REFERENCE TO INSTRUMENTS
 - A. Straight-And-Level Flight
 - B. Straight, Constant Airspeed Climbs
 - C. Straight, Constant Airspeed Descents
 - D. Turns to Headings
 - E. Critical Flight Attitudes
 - F. Radio Aids and Radar Services

- VI. FLIGHT AT CRITICALLY SLOW AIRSPEEDS
 - A. Full Stalls - Power OFF
 - B. Full Stalls - Power ON
 - C. Imminent Stalls - Power On and Power Off
 - D. Maneuvering at Minimum Controllable Airspeed

- VII. TURN MANEUVERS
 - A. Constant Altitude Turns
 - B. Descending Turns

- VIII. FLIGHT MANEUVERING BY REFERENCE TO GROUND OBJECTS
 - A. Rectangular Course
 - B. S-Turns Across A Road
 - C. Turns Around A Point

- IX. NIGHT FLIGHT OPERATIONS
 - A. Preparation and Equipment
 - B. Night Flight

- X. EMERGENCY OPERATIONS
 - A. Emergency Approach and Landing (Simulated)
 - B. Systems and Equipment Malfunctions

- XI. APPROACHES AND LANDINGS
 - A. Normal Approach and Landing
 - B. Forward Slips to Landing
 - C. Go-Around From A Rejected Landing
 - D. Crosswind Approach and Landing
 - E. Short-Field Approach and Landing

F. Soft-Field Approach and Landing

DEPARTMENTAL GUIDELINES *(optional)*

Evaluation is by completion of flight time. Grading: Pass - Fail.

DIVISION CHAIR APPROVAL

DATE