



MASTER COURSE OUTLINE

Prepared By: Gregory Crane

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COURSE TITLE

Seaplane Flight

GENERAL COURSE INFORMATION

Dept.: AVF

Course Num: 272

(Formerly:)

CIP Code: 49.0102

Intent Code: 22

Program Code:

Credits: 2

Total Contact Hrs Per Qtr.: 22

Lecture Hrs: 22

Lab Hrs:

Other Hrs:

Distribution Designation: General Elective (GE)

COURSE DESCRIPTION (as it will appear in the catalog)

A dual flight lab course designed to develop flight skills in water operations and procedures, along with flight maneuvers in preparation for the FAA Seaplane Rating; includes flight time and critique.

PREREQUISITES

Commercial Pilot Certificate or Chief Pilot approval

TEXTBOOK GUIDELINES

FAA-H-8083-3

C-180 Flight Manual by Cessna aircraft

Appropriate textbook as chosen by Aviation Flight Faculty (Example: *How to Fly Floats* by Edo)

COURSE LEARNING OUTCOMES

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

1. Demonstrate the instructional ability, skill, aeronautical knowledge, and experience necessary to meet or exceed the standards listed in the appropriate FAA Practical Test Standards.

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

COURSE OUTLINE - FLIGHT

LESSON 1: BASIC INSTRUMENT REVIEW AND AIRCRAFT FAMILIARIZATION

Objective: The student shall review instrument procedures from the right seat and develop the ability to analyze, explain, and execute basic IFR application.

LESSON 2: IFR FLIGHT AND NAVIGATION REVIEW

Objective: The student shall review basic instrument flying, VOR/ADF tracking/intercepts of preselected radials/bearings, and continue to develop the ability to explain and perform maneuvers simultaneously.

LESSON 3: SIMULATOR FAMILIARIZATION AND REVIEW

Objective: The student shall develop familiarity with the operators console and with the capabilities of the trainer.

LESSON 4: HOLDING AND APPROACHES

Objective: The student shall review selected maneuvers & perform each holding pattern entry and various approaches, including use of DME, while developing the ability to teach each procedure.

LESSON 5: CROSS COUNTRY REVIEW AND EMERGENCY PROCEDURES

Objective: The student shall review cross-country procedures, including emergency procedures, and further develop the ability to explain, teach, and correct errors.

LESSON 6: RECOMMENDATION FLIGHT

Objective: The student shall review the appropriate area of operation in the Instrument Instructor Practical Test Standards and show the required level of proficiency.

COURSE OUTLINE - GROUND TRAINING

Objective: The student shall review the material required for the Instrument Airplane rating and the associated Instrument Instructor rating.

1. Human Factors
2. Aerodynamic Factors
3. Flight Instruments
4. Airplane Attitude Instrument Flying
5. Navigation Systems
6. The National Airspace System
7. The Air Traffic Control System
8. IFR Flight
9. Emergency Operations
10. Miscellaneous

DEPARTMENTAL GUIDELINES *(optional)*

Evaluation is by in-flight demonstration of instrument instructional skills & an oral demonstration of the ability to teach the related aeronautical material.

Grading:

Satisfactory performance of all required maneuvers & procedures. _____ Pass

Unsatisfactory performance of any required maneuvers or procedures. _____ Fail

DIVISION CHAIR APPROVAL

DATE