



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. Satisfactorily demonstrate the necessary aeronautical skill and aeronautical knowledge required for the issuance of the seaplane rating.

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

AIRPLANE SINGLE ENGINE SEA FLIGHT:

LESSON 1. Aircraft Familiarization

Objective: Familiarize student with the aircraft, its operating procedures, documents and use of controls and instruments.

LESSON 2. Taxiing, normal, takeoffs, and LANDINGS

Objective: To improve proficiency in all operations, utilizing the checklist. To demonstrate proper usage of controls during taxi and use of water rudder. To determine wind speed and direction without the use of windsocks.

LESSON 3. STEP TAXI, TAKEOFFS, AND LANDINGS

Objective: To develop proficiency in takeoffs and landings, both normal and crosswind, taxiing, idle, step, and plow.

LESSON 4. WATER HANDLING AND DOCKING/BEACHING

Objective: To develop proficiency in water handling, sailing and docking, or beaching, rough water takeoffs and landings.

LESSON 5. EMERGENCY PROCEDURES—SMALL LAKE AND RIVER LANDINGS.

Objective: To familiarize the student with emergency procedures, forced landings on other than water, small lake operations, open sea landings, and cross-country flying.

LESSON 6. REVIEW AND PRACTICE

Objective: To determine readiness for the stage check and seaplane rating recommendation ride.

LESSON 7: COMPLETION STAGE CHECK

Objective: Student will demonstrate the necessary skill, meeting required standards for the single-engine sea airplane class rating, as published in the appropriate FAA Practical Test Standard.

COURSE CONTENT OUTLINE – AIRPLANE SINGLE ENGINE SEA GROUND:

LESSON 1. Aircraft AND ENGINE OPERATIONS

Objective: The student shall know the various aircraft components and their functions.

LESSON 2: WATER OPERATIONS TAXI AND PARKING OF SEAPLANES

Objective: The student shall know the various procedures for taxiing and parking seaplanes.

LESSON 3: TAKEOFFS AND LANDINGS

Objective: The student shall know the various procedures for takeoffs and landings on water or land.

LESSON 4: REVIEW, BUOY IDENTIFICATION, AND RIGHT-OF-WAY RULES

Objective: The student shall have a basic understanding of all buoys involved in west coast salt water operations, and review any area where either the instructor or the student feel review is needed.

LESSON 5: FINAL TEST

Objective: Evaluate student's understanding of course material.

DEPARTMENTAL GUIDELINES *(optional)*

Evaluation is by in flight demonstration of flight proficiency, oral examination of aeronautical knowledge and completion of home assignments.

Grading:

Satisfactory performance of maneuvers I/A/W FAA Practical Test Standards, satisfactory oral explanation I/A/W FAA Practical Test Standards and at least 70% on home assignments ___Pass

Substandard Performance of maneuvers or oral explanations as defined by FAA Practical Test Standards, or less than 70% on home assignments ___Fail

DIVISION CHAIR APPROVAL

DATE