

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: ATF 1104

COURSE TITLE: Primary Flight

PREREQUISITE(S): None

COREQUISITE(S): None

STUDENT ADVISING NOTES: FAA Student Pilot Certificate and
FAA Class III Medical Certificate

CREDIT HOURS: 4

CONTACT HOURS/WEEK: 6

CONTACT HOUR BREAKDOWN:

 Lecture/Discussion: 3

 Laboratory: 3

 Other _____: 0

FACULTY WORKLOAD POINTS: 4

STANDARDIZED CLASS SIZE
ALLOCATION: 30

CATALOG COURSE DESCRIPTION:

This introductory level course is the first course in the student's flight training. It introduces the student to the airplane, preflight and ground operations of the airplane, basic airmanship including primary flight maneuvers, normal and maximum aircraft performance, takeoff and landing techniques, and emergency procedures. The student will also learn about human factors in flight, radio communications techniques, operating procedures in different airspaces, various methods of navigation, flight away from the airport environment (cross country flight), and other factors of concern to the aviator. Training will include both day and night flights. The course requirements are met when the FAA issues the student his or her Private Pilot Certificate with Airplane Single-Engine Land Rating. Florida State College at Jacksonville provides the flight instruction through a college contracted flight school.

SUGGESTED TEXT(S): Contractor provided.

IMPLEMENTATION DATE: June, 1990

REVIEW OR MODIFICATION DATE: Spring Term, 1999
Fall Term, 2002 (20031)
Summer Term, 2007 (20073)
Fall Term, 2008 (20091) - Outline Review 2007

****NOTE**** Course topics are those required by FAR Part 141, Appendix A. Contact hours per topic will vary since students are trained to competency in each topic. Approximate total contact hours are 98. The topics include:

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Preflight Preparation	5
II. Preflight Procedures	20
III. Airport Operations	7
IV. Takeoffs, Landings, and GO-Arounds	12
V. Performance Maneuver	5
VI. Ground Reference Maneuvers	10
VII. Navigation	10
VIII. Slow Flight and Stalls	5
IX. Basic Instrument Maneuvers	5
X. Emergency Operations	3
XI. Night Operation	5
XII. Postflight Procedures	3
Total	90

PROGRAM TITLE: Professional Pilot Technology
 COURSE TITLE: Primary Flight
 CIP NUMBER: 0649.010200

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

02.0 DEMONSTRATE AN UNDERSTANDING OF FUNDAMENTALS OF AERONAUTICS -- The student will be able to:

- 02.02 Name and compare the four forces of flight.
- 02.03 Describe an airfoil.
- 02.04 Tell how lift is produced.
- 02.05 Discuss how and why an airplane stalls and spins.
- 02.06 Describe and explain how pitot/static, vacuum, pressure and engine instruments work.
- 02.07 Explain the aircraft design performance and operation.

04.0 DEMONSTRATE UNDERSTANDING OF METEOROLOGY -- The student will be able to:

- 04.02 Demonstrate an understanding of air mass development, the movement of fronts and their effect on aviation.
- 04.05 Interpret printed reports, forecasts and graphic weather products.

05.0 DEMONSTRATE KNOWLEDGE OF AIRCRAFT COMMUNICATION EQUIPMENT -- The student will be able to:

- 05.01 Use and explain aircraft voice communication equipment.
- 05.02 Explain function and use of ELT's, voice recorders, and other emergency communication systems.
- 05.03 Demonstrate use of proper phraseology in ATC communications.

06.0 DEMONSTRATE KNOWLEDGE AND AN UNDERSTANDING OF AIRCRAFT PROPULSION AND ASSOCIATED SYSTEMS - The student will be able to:

- 06.02 Describe a typical cooling system.
- 06.03 Describe and sketch a basic float type carburetor.
- 06.04 Describe the advantages of a fuel injected engine.
- 06.06 Describe a typical magneto ignition system, including proper magneto checks.
- 06.08 Demonstrate basic operation of an aircraft engine including proper interpretation of instruments and operation of throttle, mixture control, carburetor heat control and prop control.

08.0 DEMONSTRATE FLIGHT PLANNING SKILLS-- The student will be able to:

- 08.01 Explain major portion of Parts 1, 61, 67, 91 of the Federal Aviation Rules and Regulations and the reporting requirements of NTSB 830.
- 08.02 Define weight and balance.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

- 08.03 Define center of gravity, moment, datum line, CF envelope basic empty weight and gross weight.
- 08.04 Solve given weight and balance problems.
- 08.05 Determine route of flight.
- 08.06 Demonstrate acquisition of appropriate weather data.
- 08.07 Demonstrate proper selection of destination/enroute/alternate airports.
- 08.08 Explain fuel requirements.
- 08.09 Calculate and compute weight/balance.
- 08.10 Calculate aircraft performance.
- 08.11 Access and analyze NOTAMS.
- 08.12 Acquire and define mission profile.
- 08.13 Demonstrate and explain a flight log.
- 08.14 Demonstrate methods in VFR/IFR flight plans.

