

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	ATF 2200
COURSE TITLE:	Instrument Flight
PREREQUISITE(S):	ATF 1104
COREQUISITE(S):	None
CREDIT HOURS:	4
CONTACT HOURS/WEEK:	6
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	2
Laboratory:	4
Other _____:	
FACULTY WORKLOAD POINTS:	4
STANDARDIZED CLASS SIZE ALLOCATION:	30

CATALOG COURSE DESCRIPTION:

This course consists of mastering normal and emergency instrument flight techniques, operations under instrument flight rules (IFR), proper radio communications, and radio navigation and charts including standard Departure Procedures (DPs), enroute (L-charts), Standard Terminal Arrival Routes (STARs), and Instrument Approach Procedures (IAPs). The course requirements are met when the FAA adds the Instrument-Airplane rating to the student's pilot certificate. Florida State College at Jacksonville provides the flight instruction through a college contracted flight school.

SUGGESTED TEXT(S):	Jeppesen: <u>Instrument/Commercial Textbook</u> ISBN: 0-88487-387-0
IMPLEMENTATION DATE:	Fall Term, 1989 (901)
REVIEW OR MODIFICATION DATE:	Winter Term, 1994 (942) Spring Term, 1999 (992) 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 C. Contact hours per topic will vary since students are trained to competency in each topic. Approximate total contact hours are 170. The topics include:

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Preflight Preparation	5
II. Preflight Procedures	10
III. Air Traffic Control Clearances and Procedures	20
IV. Flight by Reference to Instruments	20
V. Navigation Systems	10
VI. Instrument Approach Procedures	10
VII. Emergency Operations	10
VIII. Postflight Procedures	5
Total	90

PROGRAM TITLE: Professional Pilot Technology

COURSE TITLE: Instrument Flight

CIP NUMBER: 0649.010200

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

03.0 UNDERSTAND AND EXPLAIN FEDERAL AVIATION REGULATIONS-- The student will be able to:

03.01 Explain major portion of Parts 1, 61, 67, 91 of the Federal Aviation Regulations and the reporting requirements of NTSB 830.

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.

05.03 Demonstrate use of proper phraseology in ATC communications.

05.04 Discuss uses and limitations of portable transceivers.

05.05 Demonstrate use of phonetic alphabet.

07.0 DEMONSTRATE AN UNDERSTANDING OF NAVIGATION SYSTEMS AND PROCEDURES -- The student will be able to:

07.01 Define radio navigation.

07.02 Explain the magnetic compass.

07.03 Describe and demonstrate VOR navigation.

07.04 Describe and demonstrate the ADF equipment.

07.05 Explain DME and RNAV principles.

07.06 Demonstrate usage of magnetic coordinates.

07.07 Demonstrate and explain the flight computer.

07.09 Explain en-route and terminal charts and approach plate.

07.10 Explain lost communications emergency procedures VFR and IFR.

07.11 Read and interpret aircraft performance charts.

07.12 Plot and explain a cross country course.

07.13 Describe the FAA national airspace system.

07.14 Define SID's and STAR's.

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

08.01 Explain major portions of Parts 1, 61, 67, of the Federal Aviation Rules and Regulations and the reporting requirements of NTSB 830.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1 COURSE PREFIX AND NUMBER: <u>ATF 2200</u>	SEMESTER CREDIT HOURS: <u>4</u>
COURSE TITLE: <u>Instrument Flight</u>	

Section 2
 TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input checked="" type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input type="checkbox"/> AAS Required Professional Course	<input type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____		
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)
 INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communications	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4
 INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry
<input type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input type="checkbox"/> Working Collaboratively

Section 5	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Demonstrate an understanding of the procedures for gathering appropriate information and planning a flight under instrument flight rules.	Written Testing
•	Demonstrate the ability to analysis the airworthy condition of an aircraft for flight under instrument flight rules.	Oral quiz and/or demonstration
•	Demonstrate the ability to operate solely by reference to instruments.	Skill Demonstration
•	Demonstrate the ability to operate navigation systems and perform instrument approach procedures	Skill Demonstration
•	Demonstrate the ability to operate an aircraft under abnormal and emergency conditions.	Oral quiz, written testing and skill demonstration
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Section 6
 Name of Person Completing This Form: David Dagenais Date: 2-12-2007