FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	ATF 2230
COURSE TITLE:	Commercial Flight
PREREQUISITE(S):	None
COREQUISITE(S):	None
STUDENT ADVISING NOTES:	Suggested Course(s): ATF and ATF and FAA Private Pilot Certificate with Airplane Single-Engine Land Rating
CREDIT HOURS:	5
CONTACT HOURS/WEEK:	7
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	4
Other _____:	
FACULTY WORKLOAD POINTS:	5
STANDARDIZED CLASS SIZE ALLOCATION:	30

CATALOG COURSE DESCRIPTION:

Prerequisite: FAA Private Pilot Certificate with Airplane Single-Engine Land Rating. The course consists of mastering advanced flight maneuvers flown to commercial pilot standards, advanced aircraft performance, radio communications, cross country flight, night flight, advanced takeoff and landing techniques, human factors, Federal Aviation Regulations, emergency procedures, etc. The course requirements are met when the FAA issues the student his or her Commercial Pilots 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 supplied
IMPLEMENTATION DATE:	June, 1990
REVIEW OR MODIFICATION DATE:	Fall Term, 1995 (961) Spring Term, 1999 (992) Fall Term, 2002 (20031) Summer Term, 2007 (20073) Fall Term, 2008 (20091) (was ATF 2400)

	COURSE TOPICS	CONTACT HOURS PER TOPIC
I.	Preflight Preparation	6
II.	Preflight Procedures	3
III.	Airport Operations	3
IV.	Takeoffs, Landing, and Go-Arounds	3
V.	Performance Maneuvers	20
VI.	Ground Reference Maneuver	20
VII.	Navigation	20
VIII.	Slow Flight and Stalls	9
IX.	Emergency Operations	9
X.	High Altitude Operations	6
XI.	Postflight Procedures	6
	Total	105

PROGRAM TITLE: Professional Pilot Technology

COURSE TITLE: Commercial Flight

CIP NUMBER: 0649.010200

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

03.0 UNDERSTAND AND EXPLAIN FEDERAL AVIATION ADMINISTRATION 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:

04.01 Describe the composition, circulation and stability of the atmosphere.
04.03 Demonstrate an awareness of weather hazards to aviation and an understanding of how to avoid them.

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:

06.03 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.

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.
07.07 Demonstrate and explain the flight computer.
07.08 Explain sectional charts and their use.
07.10 Explain lost communications emergency procedures VFR and IRF.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

07.11 Read and interpret aircraft performance charts.
07.12 Plot and explain a cross country course.

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

08.01 Explain major portion of Parts 1, 61, 67, of the Federal Aviation Rules and Regulations and the reporting requirements of NTSB 830.
08.02 Define weight and balance.
08.03 Define center of gravity, moment, datum line, CG envelop, basic empty weight and gross weight.
08.04 Solve given weight and balance problems.
08.09 Calculate and compute weight/balance.
08.10 Calculate aircraft performance.

Florida State College At Jacksonville

Course Learning Outcomes & Assessment For All College Credit Courses

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: ATF 2230	**SEMESTER CREDIT HOURS:** 5
COURSE TITLE: Commercial Flight	

Section 2

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

- ☐ AA Elective
- ☒ AS Required Professional Course
- ☐ College Prep
- ☐ AS Professional Elective
- ☐ AAS Required Professional Course
- ☐ Technical Certificate
- ☐ Other _____
- ☐ 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:

- ☐ Communications
- ☐ Social & Behavioral Sciences
- ☐ Mathematics
- ☐ Natural Sciences
- ☐ Humanities

Section 4

INTELLECTUAL COMPETENCIES:

- ☒ Reading
- ☒ Speaking
- ☐ Critical Analysis
- ☒ Quantitative Skills
- ☐ Scientific Method of Inquiry
- ☒ Writing
- ☐ Listening
- ☐ Information Literacy
- ☐ Ethical Judgment
- ☐ Working Collaboratively

Section 5 LEARNING OUTCOMES		METHOD OF ASSESSMENT
•	Demonstrate an understanding of the knowledge required for commercial aircraft operations.	Written Testing
•	Demonstrate the ability to operate in the airport environment to commercial standards.	Skill Demonstration
•	Demonstrate the ability to control and manuver an aircraft to commercial standards.	Skill Demonstration
•	Demonstrate the ability to operate an aircraft under abnormal and emergency conditions to commercial standards.	Oral quiz, written testing and skill demonstration

Section 6

Name of Person Completing This Form: David Dagenais Date: 2-12-2007