

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	ATT 1110
COURSE TITLE:	Commercial Pilot Ground School
PREREQUISITE(S):	ATT 1100
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	30
<p>CATALOG COURSE DESCRIPTION: This course prepares students for Commercial Pilot training and the FAA Commercial Pilot-Airplane Computer-Based Knowledge Test. This course provides insight into advanced aircraft system such as turbo-charging, high performance engines, retractable landing gear, and environmental systems. Weight and balance of larger aircraft, advanced performance charts, and maximizing aircraft performance will also be discussed, as will regulations of interest to the Commercial Pilot. The FAA Commercial Pilot-Airplane Computer Based Knowledge Test will be offered as an option in lieu of the course final exam immediately following the course.</p>	
SUGGESTED TEXT(S):	<p>Jeppesen: <u>Instrument/Commercial Textbook</u></p> <p>Jeppesen: <u>Commercial Knowledge Test Guide</u></p> <p>Gleim: <u>Commercial Pilot FAA Written Test</u></p>
IMPLEMENTATION DATE:	June, 1990
REVIEW OR MODIFICATION DATE:	<p>Fall Term, 2002 (20031)</p> <p>Summer Term, 2007 (20073)</p> <p>Fall Term, 2008 (20091) - Outline Review 2007</p>

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Federal Aviation Regulations	3
II. Flight Operations	3
III. Aerodynamics	3
IV. Aviation Weather	6
V. Aeronautical Charts	6
VI. Navigation and Instruments	7
VII. Cross Country Planning	6
VIII. Performance	4
IX. Weight and Balance	4
X. Examinations	3
Total	45

PROGRAM TITLE: Professional Pilot Technology
 COURSE TITLE: Commercial Pilot Ground School
 CIP NUMBER: 0649.010200

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

02.0 DEMONSTRATE AN UNDERSTANDING OF FUNDAMENTALS OF FLIGHT—The student will be able to:

- 02.01 State and give examples of Newton's three laws of motion.
- 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.

03.0 UNDERSTAND AND EXPLAIN FEDERAL AVIATION ADMINISTRATION PILOT CERTIFICATION PROCEDURES -- The student will be able to:

- 03.01 Explain major portion of Parts 1, 61, 67, 91,135 of the Federal Aviation Regulations and the organization, function and reporting procedures 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 weather surface charts, station sequence reports, terminal reports and area forecasts.

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.
- 05.04 Use proper phraseology in using radios.

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.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

- 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.
- 07.11 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, 91,135 of the Federal Aviation Regulations and the organization, function and reporting procedures of NTSB 830.

11.0 DEMONSTRATE UNDERSTANDING OF APPLIED SCIENCED -- The student will be able to:

- 11.01 Draw conclusions or make inferences from data.
- 11.02 Understand pressure measurement in terms of P.S.I., inches of mercury, and metric.



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>ATT 1110</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Commercial Pilot Ground School</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 checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Demonstrate an understanding of commercial flight operations.	Written Testing
•	Demonstrate an understanding of advanced navigation systems	Written Testing
•	Demonstrate an understanding of advanced aircraft weight and balance computations.	Written Testing
•	Demonstrate an understanding of high performance flight maneuvers.	Written Testing
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Section 6
 Name of Person Completing This Form: David Dagenais Date: 2-12-2007