

FLORIDA STATE COLLEGE AT JACKSONVILLE
 COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER: ASC 2870

COURSE TITLE: Aviation Safety

PREREQUISITE(S): None

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

CATALOG COURSE DESCRIPTION:

The primary goal of this course is to provide aspiring aviation professionals with a comprehensive understanding and enhanced awareness of aviation safety. Class participation in analyzing the probable cause of selected aviation accidents, field trips, and guest speakers will be featured. Federal agencies which regulate aviation, with emphasis on those concerned with safety, will be studied. Information on how flight affects the human body and actions to minimize adverse effects.

SUGGESTED TEXT(S): Commercial Aviation Safety (Latest Ed.)Wells, Alexander T.: McGraw-Hill. 2004: ISBN # 0-07-141742-7

IMPLEMENTATION DATE: Summer Term, 2007 (20073)

REVIEW OR MODIFICATION DATE: Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Introduction	3
II. Regulatory Framework	3
III. Organization Structure and Rule Making	3
IV. The NTSB	3
V. Reporting and Recording of Safety Data	3
VI. Review of Safety Statistics	3
VII. Accident Causation Models	3
VIII. Human Factors in Aviation	3
IX. Air Traffic Safety Systems	3
X. Aircraft Safety Systems	3
XI. Airport Safety	3
XII. Aviation Security	3
XIII. Airline Safety	3
XIV. Examinations	6
Total	45

PROGRAM TITLE: Aviation Operations

COURSE TITLE: Aviation Safety

CIP NUMBER: 1649.010400

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

- 01.0 DEMONSTRATE AN UNDERSTANDING OF SAFE AND EFFICIENT WORK PRACTICES.--The student will be able to:
 - 01.01 Demonstrate an awareness and understanding of health and safety hazards, prevention and correction of ecological problems and know the solutions unique to the industry.
 - 01.02 Demonstrate an awareness and understanding of fueling hazards.
 - 01.03 Demonstrate an awareness and understanding of physical hazards.
 - 01.04 Demonstrate an awareness and understanding of fire hazards.
 - 01.05 Demonstrate an awareness of and the ability to control and extinguish fires.
 - 01.06 Demonstrate an awareness and understanding of the need for safety devices, controls, guards and equipment.
 - 01.07 Demonstrate awareness, understanding and use of personal safety devices such as goggles, masks, helmets, hearing protectors, air respirators and protective clothing.

- 02.0 DEMONSTRATE UNDERSTANDING OF FEDERAL AND STATE SECURITY PROCEDURES - The student will be able to:
 - 02.01 Describe passenger security systems in use.
 - 02.02 Describe and define federal security laws.
 - 02.03 Identify local law enforcement agencies.
 - 02.04 List known security risk features.
 - 02.05 Describe cargo theft precautions in use at facility.
 - 02.06 Describe the International Air Transport Association.
 - 02.07 List the more common labels found in the Restricted Articles Regulations: as published in bulletins by IATA.

- 07.0 DEMONSTRATE UNDERSTANDING OF AVIATION SAFETY, ACCIDENT PREVENTION AND INVESTIGATION - The student will be able to:
 - 07.01 Describe and explain the complete regulation that is currently exercised by the Federal government in the field of safety and investigation.
 - 07.02 State and discuss the portion of the Federal Aviation Act of 1958 as amended, which is generally described as Title VI, Safety Regulations of Civil Aeronautics.
 - 07.03 Demonstrate knowledge of the minimum standards governing design, materials workmanship, performance of aircraft, inspection, servicing, overhaul of aircraft, and parts and appliances, equipment and facilities, as required by section 601 (a) of Federal Aviation Act of 1958 Section 601 (a).
 - 07.04 Discuss the maximum hours of service for airmen and other employees, and other practices, methods, and procedures as required by Section 601 (a) of the Federal Aviation Act of 1958.

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

07.05 Explain the Federal Aviation Regulation (FAR'S) PROMULGATED BY THE Administrator to implement the authority granted by the Federal Aviation Act of 1958, in the area of safety, and to prevent accidents.

11.0 EVALUATE FACILITY MAINTENANCE PROBLEMS AND PRESCRIBE CORRECTIVE ACTION - The student will be able to:

- 11.01 Describe and explain the complete regulation that is currently exercised by the federal government in the field of safety, and maintenance.
- 11.02 Demonstrate knowledge of the minimum standard for work practices including methods and procedures as required by Section 601 (a) of the Federal Aviation Act of 1958.
- 11.03 Explain the Federal aviation Regulations (FAR's) promulgated by the Administrator to implement the authority granted by the Federal Aviation Act of 1958.
- 11.04 State the procedures and practices in conformity with FAR's when FAA inspectors review the company practices.

PROGRAM TITLE: Professional Pilot Technology

COURSE TITLE: Aviation Safety

CIP NUMBER: 1649.010200

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

01.0 DEMONSTRATE AN UNDERSTANDING OF SAFE AND EFFECTIVE WORK PRACTICES - The student will be able to:

01.01 Demonstrate an awareness and understanding of health and safety hazards, prevention and correction of environmental problems and know the solutions unique to the industry.

01.02 Demonstrate an awareness and understanding of fueling operations.

01.03 Demonstrate an understanding of situation awareness.

01.04 Demonstrate an awareness and understanding of fire hazards and the ability to control and extinguish fires.

01.05 Demonstrate an awareness and understanding for the need of safety devices, controls, guards and equipment.

13.0 DEMONSTRATE AIRCRAFT OPERATIONS - The student will be able to:

13.06 Demonstrate post-operation report completion.

13.07 Demonstrate situation awareness.

13.08 Demonstrate correct decision-making skills.



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

<i>Section 1</i>	
COURSE PREFIX AND NUMBER: ASC 2870	SEMESTER CREDIT HOURS: 3
COURSE TITLE: Aviation Safety	

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

<i>Section 5</i>	
LEARNING OUTCOMES	METHOD OF ASSESSMENT
• Demonstrate recognition of successful safety factors	Written testing
• Discuss and demonstrate knowledge of legislation and organizations that have an impact on safety	Written testing
• Discuss and recognize how the body influences a person's ability to function under the various conditions encountered in flight.	Written testing
• Participate in an assessment of hazardous events	Group or individual presentation
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Section 6

Name of Person Completing This Form: David Dagenais