

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

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| COURSE NUMBER: | ATT 2820 |
| COURSE TITLE: | Introduction to Air Traffic Control |
| PREREQUISITE(S): | ATT 1810 |
| 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:

This course continues a deeper introduction to the Air Traffic Control environment established in ATT 1810. Course topics include ATC terms, ATC publications, ATC Procedures, Federal Aviation Regulations, aerodynamics, aircraft types and characteristics, navigation charts, pilot's environment, flight assistance and emergencies, special operations, wake turbulence, and communications. Emphasis will be placed on the application of ATC procedures and standards as they apply to airspace, regulations, IFR/VFR separation standards, emergencies, communications, clearances, stripmarking, and specific Control Tower and Radar Facility procedures.

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| SUGGESTED TEXT(S): | FAA Order 7110.65, Air Traffic Control, Washington D.C.: United States Government Printing Office |
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| IMPLEMENTATION DATE: | Fall Term, 2008 (20091) |
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|------------------------------|--|
| REVIEW OR MODIFICATION DATE: | |
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| COURSE TOPICS | CONTACT HOURS <u>PER TOPIC</u> |
|--|-----------------------------------|
| I. Air Traffic Control Terms and Phraseology | 3 |
| II. Airspace Designations and use | 3 |
| III. Nav aids and Special Operations | 3 |
| IV. Airport Equipment | 3 |
| V. Aeronautical Publications used in the ATC Environment | 6 |
| VI. Aircraft Characteristics and Identification | 4 |
| VII. Communications and Stripmarking | 4 |
| VIII. Tower Procedures | 3 |
| IX. Terminal Procedures | 3 |
| X. Wake Turbulence | 3 |
| XI. Aircraft Emergencies and Special Handling | 4 |
| XII. Nonradar Operations | <u>6</u> 45 |

PROGRAM TITLE: Aviation Operations (Air Traffic Control)

COURSE TITLE: Introduction to Air Traffic Control

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 physical hazards.
- 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.
 - 03.01 List known security risk features.
- 04.0 DEMONSTRATE UNDERSTANDING OF FEDERAL AVIATION ADMINISTRATION, STATE AND OTHER GOVERNMENTAL LAWS, RULES AND POLICES -- The student will be able to:
- 04.02 Describe the function, basic organization and responsibility of the National Transportation Safety Board.
 - 04.03 Explain major portions of Parts 1, 61, 67, 77, 91, NTSB 830 and FAR Parts 108 and 139 of the Federal Aviation Regulations.
 - 04.04 List and describe the major federal statutes pertaining to the regulation of aviation safety.
- 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.
 - 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)
 - 07.05 Explain the Federal Aviation Regulations (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.

LIST PERFORMANCE STANDARD ADDRESSED: (continued)

NUMBER(S): TITLES(S):

08.0 DEMONSTRATE APPROPRIATE COMMUNICATION SKILLS - The student will be able to:

08.02 Read and understand graphs, charts, diagrams, and tables commonly used in this industry/occupation area.

08.03 Read and follow written and oral instructions.

08.04 Read critically by recognizing assumptions and implications and by evaluating ideas.

12.0 DEMONSTRATE APPROPRIATE UNDERSTANDING OF BASIC SCIENCE - The student will be able to:

12.01 Understand molecular action as a result of temperature extremes, chemical reaction, and moisture content.

12.02 Draw conclusions or make inferences from data.

12.03 Understand pressure measurement in terms of P.S.I., inches of mercury, and K.P.A.



**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.

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| <i>Section 1</i> | |
| COURSE PREFIX AND NUMBER: <u>ATT 2820</u> | SEMESTER CREDIT HOURS: <u>3</u> |
| COURSE TITLE: <u>Introduction to Air Traffic Control</u> | |

Section 2

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

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| <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 checked="" 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:

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| <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:

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|---|---|--|--|---|
| <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 checked="" type="checkbox"/> Working Collaboratively |

| <i>Section 5</i> | |
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| LEARNING OUTCOMES | METHOD OF ASSESSMENT |
| • Explain and apply the principles associated with the duties and responsibilities of each ATC facility position.. | Written testing |
| • Apply the principles learned to describe pilot/controller interaction. | Written testing |
| • Discuss and demonstrate proper communication phraseology. | Written testing |
| • Explain and apply ATC theories and principles through the use of critical thinking exercises. | Group project or individual term paper |
| • Explain the handling of VFR/IFR traffic by ATC. | Local field trip to area airports or in-class guest speakers |
| • Explain the handling of IFR traffic by ATC. | Written testing |
| • Describe emergencies and special handling situations | Written testing |
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Section 6

Name of Person Completing This Form: David Dagenais