

FLORIDA STATE COLLEGE AT JACKSONVILLE  
COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	ATT 2823
COURSE TITLE:	Air Traffic Control Non-radar w/lab
PREREQUISITE(S):	ATT 1810, ATT 2820, ATT 2822
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 provides students with fundamental knowledge of non-radar procedures and standards, with a focus on enroute and terminal non-radar concepts and theories, terminology, separation procedures and techniques, and unusual situations. Student evaluations are based on demonstrated application of non-radar concepts, non-radar enroute and terminal separation techniques, and unusual situations. Exercises progress in difficulty. Students must demonstrate their basic non-radar knowledge by successfully performing a non-radar exercise without assistance. Topics include recording clearances and control information, radio and interphone communication, vertical separation, longitudinal separation, lateral separation, general control and board management, IFR clearances and route assignments, IFR flight direction, altitude assignment, lost communication procedures, and initiating emergency procedures.

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:

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. General Non-radar Control	3
II. Initial Separation of Successive Departing and Arriving Aircraft	3
III. Longitudinal Separation	3
IV. Lateral Separation	3
V. Vertical Separation	3
VI. Timed Approaches	5
VII. Departure Procedures and Separation	4
VIII. Arrival Procedures and Separation	3
IX. Helicopter Operations and Sea Lane Operation	3
X. NAVAID Use Limitations	3
XI. Clearances and Departure Procedures during Non-radar Control	3
XII. Route Assignment, Altitude Assignment and Verification	3
XIII. Holding Aircraft	3
XIV. Arrival Procedures and Approach Clearance Procedures	<u>3</u>
	45

PROGRAM TITLE: Aviation Operations (Air Traffic Control)

COURSE TITLE: Air Traffic Control Nonradar w/lab

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.

04.0 DEMONSTRATE UNDERSTANDING OF FEDERAL AVIATION ADMINISTRATION, STATE AND OTHER GOVERNMENTAL LAWS, RULES AND POLICES -- The student will be able to:

04.01 Describe the function, basic organization and responsibility of the National Transportation Safety Board.

04.02 Explain major portions of Parts 1, 61, 67, 77, 91, NTSB 830 and FAR Parts 108 and 139 of the Federal Aviation Regulations.

04.03 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.

08.02    Read and follow written and oral instructions.

08.03    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.

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



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: <u>ATT 2823</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Air Traffic Control Nonradar w/lab</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 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:

<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 checked="" 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

	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Apply the principles learned to describe pilot/controller interaction.	Written testing
•	Discuss and demonstrate proper communication phraseology.	Simulation exercise
•	Apply standard separation criteria.	Simulation exercise
•	Apply appropriate position report criteria to provide proper horizontal and vertical spacing.	Group project or individual term paper
•	Apply Standard separation criteria based on aircraft size.	Local field trip to area airports or in-class guest speakers
•	Apply ATC principles as it applies to emergencies and special handling situations for nonradar procedures.	Written testing
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*Section 6*

Name of Person Completing This Form: David Dagenais