



BROWARD COLLEGE COURSE OUTLINE

LAST REVIEW: 2008-09
2007--2008)

NEXT REVIEW: 2013-14

STATUS: A
A

COURSE TITLE: ATC Capstone

COMMON COURSE NUMBER: ATT 2826

CREDIT HOURS: 1

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: Lab: **16**

Clinic: Other:

PREREQUISITE(S):

COREQUISITE(S):

PRE/COREQUISITE(S): ATT 2820, ATT1810, ATT2821, ATT2822, ATT2825, ASC 2470

COURSE DESCRIPTION :

This course covers the practical application of JO7110.65 Air Traffic Control Manual. The course will evaluate what the student has learned and retained throughout the CTI program. The student will be required to successfully complete a 100 question exam covering the CTI prerequisite courses and demonstrate the practical applications in Center Radar simulation, Terminal Radar Simulation, and Tower simulation. Students successfully completing the exam and practical will take the Certified Tower Operator's Exam administered by an FAA examiner the last week of class.

UNIT TITLES

1. Capstone Review and Exam
2. Practical Application of the Center Radar Controller
3. Practical Application of the Terminal Radar Controller
4. Practical Application of the VFR Tower Controller
- 5 CTO Exam



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EVALUATION:

Student will be assessed through a series of simulator exercises that demonstrate their understanding of and the ability to separate air traffic in the FAA environment.



UNITS

Unit 1: Capstone Review and Exam

General Outcome:

- 1.0 The student shall successfully complete a comprehensive exam consisting of one hundred (100) questions on Air Traffic Control procedures and rules and be able to demonstrate the practical application of said rules and procedures in a simulated environment.**

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to demonstrate proficiency in all items in JO 7110.65 as related to the following:

- 1.1** Demonstrate aircraft recognition.
- 1.2** Explain lateral separation requirements.
- 1.3** List vertical separation requirements
- 1.4** Discuss initial separation of arrivals/departures and visual separation.
- 1.5** Define Special VFR operations.
- 1.6** Demonstrate procedures for a radar handoff and/or point out.
- 1.7** Describe Wake Turbulences separation. .
- 1.8** List frequencies associated with this airspace.
- 1.9** Demonstrate strip marking.
- 1.10** Explain phraseology.
- 1.11** Define radar procedures.
- 1.12** Define non radar procedures.
- 1.13** Describe VFR tower procedures.
- 1.14** Give specific examples of helicopter operations.
- 1.15** Describe Control Tower positions.
- 1.16** Explain Center positions.



1.17 Explain Radar positions.

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Unit 2: Practical Application of the Center Radar Controller

General Outcome:

- 2.0** The student shall demonstrate in a simulated environment the separation requirements as per the JO 7110.65 for an air traffic controller working in a center environment.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1** Demonstrate assistant controller duties
- 2.2** Demonstrate nonreaders and radar associate controller fundamentals
- 2.3** Demonstrate nonradar and radar associate controller
- 2.4** Demonstrate radar controller duties



Unit 3: Practical Application of the Terminal Radar Controller

General Outcome:

- 3.0 The student shall demonstrate in a simulated environment the separation requirements as per the JO 7110.65 for an air traffic controller working in a terminal environment.**

Specific Measurable Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.0** Demonstrate arrival and approach procedures.
- 3.1** **Demonstrate** Departure Procedures.
- 3.2** Explain and perform Transfer of Identification.
- 3.3** Demonstrate Altitude Assignment and Vertical Separation.
- 3.4** Perform Speed Adjustments.
- 3.5** Perform Vectoring.
- 3.6** Conduct Radar Separation.
- 3.7** Describe and conduct Radar Identification.
- 3.8** List Radar Services to VFR aircraft.
- 3.9** Demonstrate Visual Approaches.
- 3.10** Discuss and handle emergencies and unusual Situations.



Unit 4: Practical Application of the VFR Tower Controller

General Outcome:

- 4.0 The student shall demonstrate in a simulated environment the separation requirements as per the JO 7110.65 for an air traffic controller working in a VFR control tower.**

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.0 Explain and demonstrate Flight Data responsibilities**
- 4.2 Perform Clearance Delivery duties**
- 4.3 Conduct Ground Control duties**
- 4.4 Exercise Local Control duties**
- 4.5 Demonstrate Local/Tower Coordinator responsibilities**



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Unit 5: CTO Exam

General Outcome:

- 5.0 The student shall take a Certified Tower Operator's exam administered by the FAA.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be eligible to receive a CTO certificate once hired and trained by the FAA.

5.1 Certified Tower Operator