



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2007-2008

(i.e. 2003-2004)

NEXT REVIEW: 2012-2013

(i.e. 2008-2009)

STATUS: A

(A, I, D)

COURSE TITLE: Aircraft Finishes

COMMON COURSE NUMBER: AMT 1120

CREDIT HOURS: 1

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS: 30

(Voc. Course ONLY)

Lecture: 10

Lab: 20

Clinic:

Other:

PREREQUISITE(S): None

COREQUISITE(S): None

PRE/COREQUISITE(S): None

COURSE DESCRIPTION *(750 characters, maximum)*: This course enables the student to acquire the ability to properly use a paint spray gun to apply various types of finishes on a variety of surfaces. The student will be able to apply trim lines and aircraft identification numbers, touch up paint defects and identify and select aircraft finishing materials. Student Fee Charged.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s): Area

General Education Requirements – Associate in Science Degree (AS), meets Area(s): Area

General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s): Area

UNIT TITLES

1. Trim, Letters, and Touchup Paint
2. Aircraft Finishing Materials
3. Paint and Dope
4. Finishes and Defects

ASSESSMENT:



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Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.

1. **Quizzes, Test, and/or Final Exam (cumulative/comprehensive);**
2. **Selected faculty may assess homework, projects, class participation/attendance, and/or extra credit projects.**
Upon successful completion of this course, the students should be able to apply various types of finishes on a variety of surfaces, apply trim lines and aircraft identification numbers, touch up paint defects and identify and select aircraft finishing materials.

**** Complete the following only if course is seeking general education status ****

GENERAL EDUCATION Competencies and Skills *:

Please highlight in **green** font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

1. Read with critical comprehension	
2. Speak and listen effectively	
3. Speak and listen effectively	
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental)	
6. Apply problem solving techniques to real-world experiences	
7. Apply methods of scientific inquiry	
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	
Demonstrate an understanding of and appreciation for human diversities and commonalities	
9. Collaborate with others to achieve common goals.	
10. Research, synthesize and produce original work	
11. Practice ethical behavior	
12. Demonstrate self-direction and self motivation	
Assume responsibility for and understand the impact of personal behaviors on self and society	
13. Contribute to the welfare of the community	

** General Education Competencies and Skills endorsed by '05-'06 General Education Task Force*



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UNITS

Unit 1 Trim, Letters and Touchup Paint

General Outcome:

- 1.0 The student shall:** The students should be able to apply trim, letters and touchup paint.

Specific Measurable Learning Outcomes:

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

- 1.1 Discuss the requirements for registration markings.
- 1.2 Describe the relative proportions of identification markings.
- 1.3 Describe the use of color and ornamentation when applying registration marks.



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Unit 2 Aircraft Finishing Materials

General Outcome:

- 2.0 **The student shall:** The students should be able to identify and select aircraft finishing materials

Specific Measurable Learning Outcomes:

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

- 2.1 List the characteristics of butyrate and acetate dopes.
- 2.2 Discuss the types of thinners used with various types of paints and dope.
- 2.3 List the characteristics of fabric rejuvenators.
- 2.4 Discuss the types of priming paints generally used on aircraft.
- 2.5 Describe the type paint used to coat the insides of battery compartments.



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Unit 3 Paint and Dope

General Outcome:

3.0 The student shall: The students should be able to apply paint and dope.

Specific Measurable Learning Outcomes:

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

- 3.1 Explain the purpose of fungicidal dope in aircraft finishing.
- 3.2 Discuss the application of rejuvenator to repair an aged dope finish.
- 3.3 Describe the products and methods used to dope-proof airframe structures.
- 3.4 Explain the effect of atmospheric conditions on dope during its application.
- 3.5 Sand and rub aircraft finishes.
- 3.6 Apply primer to aluminum alloy parts.
- 3.7 Use and maintain a paint spray gun.
- 3.8 Explain the purpose of brushing the first coat of dope instead of spraying.



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Unit 4 Finishes and Defects

General Outcome:

- 4.0 **The student shall:** The students should be able to inspect finishes and identify defects.

Specific Measurable Learning Outcomes:

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

- 4.1 Describe the type of painting defect caused by moving the spray gun in an arc instead of a straight line.
- 4.2 Explain the cause of runs and sags in aircraft finishes.