Date Prepared: Summer 2001
Date Reviewed: Spring 2007
Date Reviewed:
PCA Established:

ALLAN HANCOCK COLLEGE
COURSE OUTLINE

DEPARTMENT: **FIRE, SAFETY AND EMS**

PREFIX & NO.: FT 342

CATALOG TITLE: Fireground Hydraulics

SCHEDULE TITLE: Fireground Hydraulics

UNITS: .5

TOTAL LECTURE HOURS: 8 -16

TOTAL LAB HOURS: 0 - 24

TOTAL NUMBER OF WEEKS: (if other than 16)

GRADING OPTION: Letter Grade Only

PREREQUISITE: None

CATALOG DESCRIPTION

Students will learn field hydraulic formulas that have been field tested and proven. Student will learn the study of water in motion and fire stream control.

SCHEDULE DESCRIPTION

Students will learn field hydraulic formulas that have been field tested and proven. Student will learn the study of water in motion and fire stream control.

COURSE GOALS To encourage and enable students to:

1. become familiar with hydraulic formulas.
2. develop awareness of water in motion theories.
3. become skilled at applying nozzle tip sizes to water flow calculations.

INSTRUCTIONAL OBJECTIVES At the end of the course, the student will demonstrate the ability to:

1. analyze specific field hydraulic situations.
2. where appropriate, perform hydraulic calculations.

COURSE OUTLINE	Hours
1. Introduction	0.5 – 1.0
2. Basic study of water in motion	1.0 – 2.0
3. Basic field hydraulics formulas	2.0 - 4.0
4. K Factors for fire streams	2.0 – 4.0
5. Nozzle and tip sizes	1.5 – 12
6. Review and test	1.0 – 1.0

APPROPRIATE READINGS (other than textbook)

IFSTA Hydraulics Manual Latest Edition

ASSIGNMENTS

1. Use department apparatus and equipment, develop fire ground hydraulics skills on the training grounds.
2. Use hydraulic formulas in the firehouse using tabletop simulations to develop skills.

EVALUATION

1. Written test
2. Classroom participation

TEXTS AND SUPPLIES

Adopted Text: Handouts provided

Other Materials: None