

Bossier Parish Community College  
Master Syllabus

**Course Prefix and Number:** FRSC 220

**Credit hours:** 3

**Course Title:** Fire Protection Hydraulics and Water Supply

**Course Prerequisites:** **Demonstration of a competency in high school level algebra or the equivalent.**

**Textbook(s):** Crapo, W., Fire Protection and Hydraulics and Water Supply, 3<sup>rd</sup> ed., Jones and Bartlett

**Course Description:** This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and solve water supply problems.

**Learning Outcomes:**

At the end of the course, the student will be able to:

- A. apply water hydraulic principles
- B. demonstrate knowledge of water hydraulics as it relates to fire protection

To achieve the learning outcomes, the student will be able to:

1. apply the application of mathematics and physics to the movement of water in fire suppression activities. (A,B)
2. identify the design principles of fire service pumping apparatus. (B)
3. analyze community fire flow demand criteria. (B)
4. demonstrate, through problem solving, a thorough understanding of the principles of forces that affect water, both at rest and in motion. (A)
5. list and describe the various types of water distribution systems. (B)
6. discuss the various types of fire pumps. (B)

**Course Requirements:** To earn a grade of “C” or higher the student must earn **XXX%** of the total points for the course and meet all of the following course requirements.

**Course Grading Scale:**

**Attendance Policy:** **Attendance Policy:** The college attendance policy (for the classroom) is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

**Course Fees:** (if applicable)

## **Nondiscrimination Statement**

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### COORDINATOR FOR SECTION 504 AND ADA

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Equity/Compliance Coordinator

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