

Bossier Parish Community College  
Master Syllabus

**Course Prefix and Number:** FRSC 120

**Credit hours:** 3

**Course Title:** Fire Behavior and Combustion

**Course Prerequisites:**

**Textbook(s):** Friedman, R., Principles of Fire Protection Chemistry and Physics, 4<sup>th</sup> ed., Jones and Bartlett

**Course Description:** This course explores the theories and fundamentals of how and why fires start, spread and are controlled

**Learning Outcomes:**

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

- A. identify the fundamental theories of fire behavior and combustion
- B. differentiate the various types of extinguishing agents

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

- 1. identify physical properties of the three states of matter. (A)
- 2. categorize the components of fire. (A)
- 3. explain the physical and chemical properties of fire. (A)
- 4. describe and apply the process of burning. (A)
- 5. define and use basic terms and concepts associated with the chemistry and dynamics of fire. (A)
- 6. explain the effect and dangers of air movement of the combustion process. (A)
- 7. discuss various material and their relationship to fires as fuel. (A)
- 8. demonstrate knowledge of the characteristics of water as a fire suppression agent. (B)
- 9. articulate other suppression agents and strategies. (B)
- 10. compare other methods and techniques of fire extinguishments. (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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