

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: FST-115 Class/Lect. Hours: 3 Lab Hours: _____ Credits: 3 Dept.: Fire Protection and Safety Technology
Course Title: Fire Behavior and Combustion Semester: Fall Year: 2020

Course Description, Prerequisite, Corequisite:

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled.

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
<p>Upon completion of this course, students will be able to :</p> <ol style="list-style-type: none"> 1. Identify the fundamental theories of fire behavior and combustion 2. Differentiate the various types of extinguishing agents 	<p>Upon completion of this course, students will be able to :</p> <ol style="list-style-type: none"> 1. Identify physical properties of the 3 states of matter 2. Categorize the components of a fire 3. Explain the physical and chemical properties of fire 4. Describe and apply the process of burning 5. Define and use the basic terms and concepts associated with the chemistry and dynamics of fire 6. Explain the effect and dangers of air movement on the combustion process. 7. Discuss various materials and their relationship to fires as fuel. 8. Demonstrate knowledge of the characteristics of water as a fire suppression agent. 9. Articulate other suppression agents and strategies. 10. Compare other methods and techniques of fire suppression.