FS 106 Articulation Competencies

*Basic Fire Science (10 Credits)*

**Through a combination of lecture and hands-on training, students will learn how to perform basic functions of structural firefighting in a safe and effective manner. This course in combination with Intermediate Fire Science (FS 121) will include an embedded certification of IFSAC Firefighter One.**

*Upon completion of this course, successful students will score 80% or better on the following competencies to receive WVC college credits.*

Student Learning Outcomes:

**CATEGORIES**

1. **Problem Solving**: A. Critical Thinking 3. **Social Interaction**: A.Collaboration

 B. Creative Thinking B. Ethical Conduct

 C. Quantitative Reasoning C.Professional Conduct

 D. Qualitative Reasoning D. Cultural Diversity

1. **Communication**: A. Oral Expression 4. **Inquiry: A.** Information Literacy

 B. Written Expression B. Research

 C. Artistic Expression C. Documentation

Course Competencies Checklist:

* Understand the important elements of firefighter safety. (1A, 2A, 4B)
* Describe the elements of fire behavior. (1A, 2A)
* Demonstrate the use of personal protective equipment. (1A)
* Perform building search and rescue. (1A, 2A, 3C)

Program Outcomes:

Graduates of the Fire Science ATS degree program will be able to:

* Possess the industry recognized skills required for entry-level employment as a firefighter, meeting International Fire Service Accreditation Congress (IFSAC) standards for Firefighter I, Firefighter II, Hazardous Materials Operations and other industry standards.
* Demonstrate and appropriately use fire service equipment and procedures in conjunction with a variety of emergency response incidents; possess industry recognized apparatus operation knowledge, skills and abilities.
* Identify fire protection systems used in various occupancies including sprinkler systems, extinguishing agents, early warning devices, fire pumps, smoke and flame detection, and standpipes.
* Possess industry recognized hazardous materials first responder competencies to the level of First Responder Operations.
* Demonstrate the principles of effective risk management during incident operations including managing emergency scene safety with multiple responding units regarding the resources of time, personnel, equipment and jurisdictional authority.
* Understand the ethical responsibilities and consequences of working in an emergency services-related environment.
* Demonstrate critical thinking, problem solving abilities, teamwork, communication, intercultural appreciation, and technical and information literacy skills as they apply to the fire service.
* Demonstrate employee traits considered strong in a professional work environment: dependability, appearance, positive attitude, thoroughness, timelines, safety, and the human relations skills necessary for work in emergency services.
* Apply basic firefighting skills to a wild land/urban interface environment.
* Have a thorough knowledge of the hiring process to include Civil Service Examinations.

Core Topics:

* Incident Command System
* Firefighter Safety and Health
* Fire Behavior
* Firefighter Personal Protective Equipment
* IFSAC FF1 Preparation