

# FIRE TECHNOLOGY (503)

## 503-130 - Fire Protection Internship

Fire Protection Technician course. (Prerequisites: 503-151 Fire Prevention; Concurrent enrollment in all Semester 4 503-xxx courses)  
3 Credit hours  
216 Other hours

## 503-142 - Fire Fighting Principles

Describes basic fire behavior, techniques used to control structural and related fire emergencies, and life safety practices. Students perform all practical evolutions necessary to control and extinguish fires and otherwise meet all requirements for Firefighter I certification with the State of Wisconsin. (Prerequisites: 503-191 Principles of Emergency Services; Completion of or concurrent enrollment in 103-159 Computer Literacy - Microsoft Office; Concurrent enrollment in all Semester 2 503-xxx courses)  
4 Credit hours  
36 Lecture hours  
72 Lab hours

## 503-143 - Building Construction for Fire Protection

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. (Prerequisites: 503-191 Principles of Emergency Services; Concurrent enrollment in all Semester 2 503-xxx courses)  
3 Credit hours  
54 Lecture hours

## 503-151 - Fire Prevention

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. (Prerequisites: 503-142 Fire Fighting Principles; Concurrent enrollment in 503-154 Hazardous Materials Chemistry)  
4 Credit hours  
72 Lecture hours

## 503-153 - HazMat Awareness and Operations

Examines characteristics relating to hazardous materials including problems of recognition and mitigation. Prepares students to Hazardous Materials Technician Level. (Prerequisites: Completion of or concurrent enrollment in 531-301 EMT; 890-101 College 101; Concurrent enrollment in all Semester 1 503-xxx courses)  
1 Credit hours  
9 Lecture hours  
18 Lab hours

## 503-154 - Hazardous Materials Chemistry

This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services. (Prerequisites: 503-142 Fire Fighting Principles; Concurrent enrollment in 503-151 Fire Prevention)  
2 Credit hours  
36 Lecture hours

## 503-156 - Strategies, Tactics, and Incident Management

This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. (Prerequisites: 503-151 Fire Prevention; Concurrent enrollment in all Semester 4 503-xxx courses)  
4 Credit hours  
72 Lecture hours

## 503-157 - Fire Investigation

This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. (Prerequisites: 503-151 Fire Prevention; Concurrent enrollment in all Semester 4 503-xxx courses)  
3 Credit hours  
54 Lecture hours

## 503-191 - Principles of Emergency Services

This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer. (Prerequisites: Completion of or concurrent enrollment in 531-301 EMT; Concurrent enrollment in all Semester 1 503-xxx courses)  
2 Credit hours  
36 Lecture hours

## 503-192 - Principles of Emergency Services Safety Survival

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. (Prerequisites: Completion of or concurrent enrollment in 531-301 EMT; Concurrent enrollment in all Semester 1 503-xxx courses)  
3 Credit hours  
54 Lecture hours

## 503-193 - Fire Protection Systems

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. (Prerequisites: 503-191 Principles of Emergency Services; Concurrent enrollment in all Semester 2 503-xxx courses)  
3 Credit hours  
54 Lecture hours

## 503-194 - Fire Protection Hydraulics

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 to solve water supply problems. (Prerequisites: 503-151 Fire Prevention; Concurrent enrollment in all Semester 4 503-xxx courses)  
3 Credit hours  
36 Lecture hours  
36 Lab hours

## 503-195 - Fire Behavior and Combustion

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. (Prerequisites: Completion of or concurrent enrollment in 531-301 EMT; Concurrent enrollment in all Semester 1 503-xxx courses)  
3 Credit hours  
54 Lecture hours