Fire Fighter Technology (FFT)

FFT 1510  Introduction to Fire Protection .......... 3 Credit Hours
English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL1011 or higher for students taking the ESL sequence of courses.)
The student will review the historical practices of fire prevention, identify the roles of fire service in society, both in the public and private sector. The structure of fire service organizations and basic field equipment will be identified through lecture and discussion methods as well as field trips. Job opportunities and necessary qualifications will be addressed. BILLABLE CONTACT HOURS: 3

FFT 1520  Fundamentals of Fire Prevention ........... 3 Credit Hours
English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL1011 or higher for students taking the ESL sequence of courses.)
The student will learn inspection, surveying and mapping techniques; recognition of fire hazards; ways of engineering solutions to hazards; and enforcement of solutions. BILLABLE CONTACT HOURS: 3

FFT 1530  Fire Arson Investigation .................... 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
The student will learn: the role of the fire science/safety specialist in arson investigation; methods and mechanics of protecting, searching and controlling fire scenes; rules of determining point of origin and ignition sources; preservation of evidence; case preparation and court testimony; and Michigan and national arson codes. BILLABLE CONTACT HOURS: 3

FFT 1540  Hazardous Materials ............................ 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
The student will learn various fire fighting methods relating to hazardous materials, including solids, liquids and gases. Students will also be able to identify the proper storage facilities for these materials. Consideration will be given to the laws, standards and handling techniques of hazardous materials. BILLABLE CONTACT HOURS: 3

FFT 1550  Fire Protection Systems and Equipment ... 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
The student will review the concepts of fire protection systems. Study of the different extinguishing agents and their applications. Emphasis will be placed on sprinkler systems, automatic detection systems and principal alarm systems. BILLABLE CONTACT HOURS: 3

FFT 2510  Fire / EMS Vehicle Management and Hydraulics ..................................................... 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
The class will use a fictional town as their model for the class. Students will assume the role of the newly hired Fire Chief. Their fleet management plan must address the needs of the community, the status of the water delivery system, the budget constraints of manpower, and the overall budget for fleet acquisition & maintenance. BILLABLE CONTACT HOURS: 3

FFT 2520  Fire Service Administration ................... 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
Organization, supervision and effective management of modern Fire Department. Survey of municipal fire problems, insurance rates, legal aspects of fire prevention records and measurements of results. BILLABLE CONTACT HOURS: 3

FFT 2530  Building Construction for Fire Service ...... 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
The student will learn the fundamentals of Building Construction and Design, protection features, special considerations, and all the terms associated with building construction concerning the fire protection field. BILLABLE CONTACT HOURS: 3

FFT 2540  Fire Fighting Tactics and Strategy .......... 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
The student will review the behavior of fire, equipment, manpower and other available resources. Basic Fire Fighting Tactics and Strategy, methods of attack and preplanning possible fire target areas. BILLABLE CONTACT HOURS: 3

FFT 2550  Legal Considerations for the Fire Service . 3 Credit Hours
English/ESL Placement: Placement into ENG 1510.
This course introduces federal, state and local laws that regulate the fire service, national standards influencing the fire services, standard of care, tort, liability and a review of relevant court cases. The course will focus on legal issues confronting the fire service today, with an emphasis on Michigan law for tort liability. Topics include fire service liability issues, the jurisdiction of MIOSHA over fire departments, the applicability of the Federal Fair Labor Standards Act, search and seizure, employment discrimination, sexual harassment and third party liability. BILLABLE CONTACT HOURS: 3