

FPAT 3500 - Community Fire/Emergency Medical Services Risk Reduction (3)

Provides a theoretic framework for ethical, sociological, organizational, political, and legal components of community risk reduction, and methods for risk reduction planning.

FPAT 3510 - Fire Defense Planning (3)

Studies community defense needs, facilities, master plan development, federal assistance. Application of ISO grading schedule and guide for determining fire flow requirements, impact on fire insurance.

FPAT 3520 - Fire Protection in Building Design and Construction (3)

Studies fire protection in building design and construction, including fire resistive materials, protective systems; testing methods of fire assemblies, heat and smoke detection devices, high-rise structures; plan checking.

FPAT 3530 - Fire and Emergency Services Administration (3)

Provides Fire/EMS department administration overview, including interagency cooperation, accountable budgeting, planning for change, and using management tools for analyzing and solving problems.

FPAT 3540 - Human Behavior and Fire Protection (3)

Examines Interaction between fire, building, and occupants; human behavior factors affecting response to fire situations; decision-making; movement-modeling; egress design; evacuation strategies; fire safety strategies for senior and disabled/impaired citizens.

FPAT 3550 - Political and Legal Foundations for Fire Protection (3)

Examines the legal aspects of the fire service and the political and social impacts of legal issues.

FPAT 3560 - Wildland/Urban Interface Administration (3)

Studies Wildland Fire Fighter I foundation. 21st Century Wildfire history, ICS, wildland/urban interface considerations, use of hand tools; Wildfire Fighter II coverage human resources, radio communications, chainsaw operations and basic firing operations.

FPAT 3570 - Wildland Fire: Science and Strategy (3)

Examines fundamental science behind wildland fires, including fire dynamic, associated indicators., and fire protection methodologies. The emerging concerns about fire damage in WUI and protection measures are discussed.

FPAT 3580 - Advanced Hazardous Materials (3)

Provides advanced fire chemistry relating to the categories of hazardous materials including problems of recognition, reactivity, and health encountered by firefighters.

FPAT 3590 - Fire Cause Investigation (3)

Examines investigative, legal, and managerial approaches to arson cases, including principles of incendiary fire analysis, detection, environmental and psychological factors of arson, including legal considerations and trial preparation.

FPAT 4510 - Fire Laws and Building Codes: Interpretation and Enforcement (3)

Provides interpretation of building, fire prevention, State Fire Marshal Codes; review of building plans, enforcement procedures and techniques; challenges in case studies, code enforcement problems.

FPAT 4520 - Fire Prevention Organization and Management (3)

Provides knowledge, methods, and concepts for effective leadership of comprehensive fire-prevention and risk-reduction programs.

FPAT 4530 - Advanced Fire Protection Equipment and Systems (3)

Studies basics of fire detection and suppression system, including automatic sprinkler systems, fire alarm systems, smoke management systems, water supply systems, standpipe and hose systems and fire extinguishing systems.

FPAT 4550 - Fire Protection of Building Structural Members & Other Building Components (3)

Studies building materials under tension, compression and shear during fire exposures, and HAVC systems and their design and fire protection issues with smoke, fire movement.

FPAT 4560 - Fire Finance (3)

Provides skills, knowledge required to manage and administer fiscal activities for the fire service. The major budgeting methods, control mechanisms, forecasting and analysis processes are included.

FPAT 4570 - Fire Service Ethics (3)

Examines the basic principles of ethics as related to fire service operations and management with special attention given to current issues in the fire service.

FPAT 4580 - Applications of Fire Research (3)

Addresses research in fire dynamics, test standards/codes, safety, modeling, structural safety, life safety, firefighter health and safety, transportation hazards, and risk analysis.

FPAT 4590 - Personnel Management for the Fire Service (3)

Examines personnel administration and human resource development within fire-related organizations, including personnel management, organizational development, productivity, recruitment and selection, performance management, and collective bargaining.

FPAT PROGRAM FACULTY CONTACT

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