

Emergency Services (ESVS)

ESVS 201 Fire-Related Human Behavior 3 Credits (3,0)

Study of human behavior in fire emergencies; social science and engineering perspectives. Factors include occupant characteristics, social environment, building characteristics.

Course Offered at: Worldwide

ESVS 299 Current Topics in Fire and Emergency Services 1-3 Credit (1-3,0)

Independent or directed study on selected topics in fire science.

Course Offered at: Daytona Beach, Prescott, Worldwide

ESVS 301 Community Risk Reduction for the Fire and Emergency Services 3 Credits (3,0)

Theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction; methodology for the development of a comprehensive community risk reduction plan.

Course Offered at: Worldwide

ESVS 302 Fire Dynamics 3 Credits (3,0)

Fire dynamics in firefighting contexts: combustion, flame spread, flashover, smoke movement. Applications to building codes, large-loss fires, fire modeling.

Course Offered at: Worldwide

ESVS 303 Fire Protection Structures and Systems 3 Credits (3,0)

Design principles for structural fire protection, suppression systems. Fire resistance, flame spread evaluation, smoke control, alarm systems, sprinklers, specialized suppression systems.

Course Offered at: Worldwide

ESVS 304 Fire Investigation and Analysis 3 Credits (3,0)

Investigation of incendiary fire analysis and detection, environmental and psychological factors, legal considerations, trial preparation, managing fire investigation units. Gang-related arson and mitigation strategies.

Course Offered at: Worldwide

ESVS 305 Fire Prevention Organization and Management 3 Credits (3,0)

Factors influencing fire risk and tools for prevention: risk reduction education, codes and standards, inspection, research, master planning.

Course Offered at: Worldwide

ESVS 399 Current Topics in Fire and Emergency Services 1-3 Credit (1-3,0)

Independent or directed study on selected topics in fire science.

Course Offered at: Daytona Beach, Prescott, Worldwide

ESVS 400 Analytical Approaches to Public Fire Protection 3 Credits (3,0)

Decision-making tools in fire and emergency services: data collection, statistics, probability, decision analysis, resource allocation, cost-benefit analysis.

Course Offered at: Worldwide

ESVS 401 Applications of Fire Research 3 Credits (3,0)

Principles of research in fire science. Methods for analyzing fire-related research: fire dynamics, structural fire safety, firefighter health and safety, automatic detection, suppression, transportation fire hazards, risk analysis.

Prerequisites: RSCH 202

Course Offered at: Worldwide

ESVS 402 Fire and Emergency Services Administration 3 Credits (3,0)

Leadership and management skills for fire and emergency services departments: persuasion, budgeting, problem-solving, internal and external cooperation, change anticipation, strategic analysis.

Prerequisites: RSCH 202

Course Offered at: Worldwide

ESVS 403 Disaster Planning and Control 3 Credits (3,0)

Community risk assessment and disaster response planning. NIMS, ICS, mutual aid, training, preparedness, communication, civil disturbances, terrorism, hazardous materials planning, disaster recovery.

Prerequisites: RSCH 202

Course Offered at: Worldwide

ESVS 404 Managerial Issues in Hazardous Materials 3 Credits (3,0)

Issues in managing hazardous materials programs: regulations, preparedness, response, storage, transportation, terrorism response, emergency planning. Includes federal, state, and local planning.

Course Offered at: Worldwide

ESVS 405 Personnel Management for Fire and Emergency Services 3 Credits (3,0)

Relationships and issues in personnel administration and human resource development in fire-related organizations; personnel management, organizational development, productivity, recruitment and selection, performance management, discipline, collective bargaining.

Course Offered at: Worldwide

ESVS 406 Political and Legal Foundations of Fire Protection 3 Credits (3,0)

Legal aspects of fire service; political and social impacts. Review of the American legal system; legal and political issues related to employment, personnel, planning, code enforcement, legislative processes in fire service.

Course Offered at: Worldwide

ESVS 480 Advanced Principles in Fire and Emergency Services Safety and Survival 3 Credits (3,0)

Firefighter Life Safety Initiatives (FLSI); adapting the 16 FLSI by fire and emergency service organizations. Focus on health and safety procedures to reduce firefighter injuries and fatalities. Emphasis on managerial and operational decision-making and safety culture.

Course Offered at: Worldwide

ESVS 499 Current Topics in Fire and Emergency Services 1-3 Credit (1-3,0)

Independent or directed study on selected fire science topics.

Course Offered at: Daytona Beach, Prescott, Worldwide