

Emergency Services

Emergency Services

Department Chair: Jeff Maxfield

Associate Department Chair: Gary Noll

Program Coordinators:

Barry Stone, Paramedic
Margaret Mittelman, EMT

Faculty:

Associate Professor

Gary Noll
Jon Shields
Barry Stone

Assistant Professor

Jeff Maxfield

Instructors

Margaret Mittelman

Advisor:

Yudi Lewis

Institute of Emergency Services and Homeland Security

Utah Fire and Rescue Academy (UFRA)

Director: Jeff Maxfield
Associate Director: Hugh Connor
Associate Director: Jim Hunter

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Advisory Committee/Utah Fire Service Standards and Training Council: Chief Stephen H. Higgs, Utah State Fire Chiefs' Association; Brady George, Utah State Fireman's Association; Fire Marshal Jim Guynn, Utah Fire Marshal's Association; Training Officer Mike Riley, Utah Hazardous Materials Institute; Battalion Chief Eldon Farnsworth, International Association of Arson Investigators; Fire Management Coordinator Tracy Dunford, Utah Division of Forestry, Fire and State Lands; Craig Golden, Professional Firefighters of Utah; Battalion Chief James Bacon, Utah Fire Service Certification Council; Kevin Kemp, Utah Training Officers Association.

Advisory Board/Institute of Emergency Services and Homeland Security: Vincent Liddiard, Dugway Proving Grounds; Coy

Porter, Provo City Fire Department; Jeff Maxfield, Institute of Emergency Services and Homeland Security; Steve Lutz, Utah Valley State College; Darryl Pranger, Utah Valley State College; Wayne Hanewicz, Utah Valley State College; Larry Marsing, Utah Valley State College; Ron Morris, Utah State Fire Marshal; Gary Noll, Utah Valley State College; Charles Querry, Salt Lake City Fire Department; Lieutenant Colonel Bart Berry, Utah National Guard; Shawn Peppers, Division of Homeland Security-Private Sector and Critical Infrastructure; Mary Maughan, Senator's Robert Bennett's Office (ad hoc).

School of Technology And Computing

Interim Dean: Ernest Carey
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CAREER OPPORTUNITIES

Nationally, over 102,000 jobs in emergency services will be available in the 2000's. In Utah approximately 100 openings will be available annually in city and county fire departments. In addition, many local industries have private fire brigades with career opportunities. Opportunities for employment are available in fire departments, public safety departments, and ambulance companies for firefighters, driver-operators, EMTs, arson investigators, fire marshals and fire inspectors. Private industry positions are available as safety officers, fire marshals, fire inspectors, and emergency medical personnel.

CLASS SCHEDULING

Emergency Services classes are scheduled to meet the needs of firefighters working various shift assignments. During each semester, classes are offered during the day, afternoons, evenings and weekends. Classes designed primarily for working firefighters are scheduled on a weekend or seminar basis, and are often available for either college credit or continuing education credit. The seminar sessions are not always listed in the College semester schedule, but are announced through the bi-monthly Straight Tip newsletter. For more information on currently scheduled classes, call (801) 863-7700, or check our web page at www.ufra.uvsc.edu

PROGRAM REQUIREMENTS FOR ENROLLMENT

There are departmental enrollment requirements for Recruit Candidate Academy courses and Firefighter/Paramedic courses. Enrollment into certain off-campus or block course sections each

semester may be limited to those with existing professional certifications and/or already employed by an emergency services agency.

Recruit Candidate Academy courses FSF 1310, 1320, 1330, and 1340. Enrollment is done by means of a program application process. Prior to enrollment, students must:

1. Complete all UVSC admission requirements.
2. Meet with an Emergency Services Advisor.
3. Complete FSF 1000 and FSF 1140 courses with at least a "C-"
4. Obtain COMPASS Writing/DRP scores of 80+/ 77+, or ACT English/ACT Reading scores of 19+/ 19+, or ACT English/ACT Composite scores of 19+/19+, or SAT English score of 500+, or completion of ENGH 0990 or higher. ACT or SAT reports may not be older than 10 years.
5. Obtain COMPASS Pre-Algebra score of 70+, or ACT mathematics score of 17+, or SAT mathematics score of 450+, or completion of MAT 0990 or higher, ACT or SAT reports may not be older than 10 years.

6. Successfully complete the Candidate Physical Ability Test (CPAT) within 9 months of start date.
7. Obtain a physical examination within 6 months of start date
8. Pass a Recruit Candidate Academy review board.

Paramedic program courses FSE 2500, 2510, 2520, and 2530. Enrollment is done by means of a program application process. Prior to enrollment students must:

1. Complete ZOOL 1090 with a grade of "C" or higher.
2. Obtain COMPASS Writing/DRP scores of 80+/ 77+, or ACT English/ACT Reading scores of 19+/ 19+, or ACT English/ACT Composite scores of 19+/19+, or SAT English score of 500+, or completion of ENGH 0990 or higher. ACT or SAT reports may not be older than 10 years.
3. Obtain COMPASS Pre-Algebra score of 70+, or ACT mathematics score of 17+, or SAT mathematics score of 450+, or completion of MAT 0990 or higher, or completion of FSF 1350. ACT or SAT reports may not be older than 10 years.
4. Be able to comply with criminal background check requirements of UCA 26-8a-310 for certification as a paramedic in the state of Utah.
5. Have at least one year's experience as an EMT-Basic and have current CPR certification.
6. Be at least 18 years old and have a valid driver's license.
7. Have current vaccinations, including Hepatitis B, MMR and Tetanus.
8. Have current TB test results.

9. Complete a medical history form and obtain a current physical examination.
10. Pass a paramedic course entry examination and interview.

PROGRAMS

Five options are available: (1) One-Year Certificate, (2) Associate in Applied Science Degree, Fire Science Major with a Fire Officer Specialization or a Firefighter/Paramedic Specialization or a Wildland Fire Management Specialization, (3) Associate in Science (4) Bachelor of Science Degree in Public Emergency Services Management, (5) Bachelor of Science in Technology Management degree with a Technical Specialty in Fire Science.

Students may earn only one Associate in Applied Science Degree in Fire Science that is posted to the UVSC transcript.

Certificate in Firefighter

Recruit Candidate **33 CREDITS**

Discipline Core Requirements: 33 Credits

- Complete the following:
- ENGL 1010 Introduction to Writing 3.0
 - or ENGL 1060 Career Writing for Technology (3.0)
 - FSF 1000 Survey of Fire and Rescue Emergency Services 3.0
 - FSE 1140 Emergency Medical Technician--Basic 6.0
 - FSF 1310 Recruit Candidate Academy--Fundamentals 8.0
 - FSF 1320 Recruit Candidate Academy--Skills 3.0
 - FSF 1330 Recruit Candidate Academy--Operations 3.0
 - FSF 1340 Hazardous Materials First Responder 3.0
 - MAT 1010 Intermediate Algebra 4.0
 - or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)

Graduation Requirements:

- 1 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

Note: CERTIFICATION: Upon completion of courses for the Basic Recruit Certificate, students are eligible to apply for certification at the Firefighter I, Firefighter II, Hazardous Materials First Responder-Awareness and Hazardous Materials First Responder-Operations levels through the Utah Fire Science Certification System. Students are also eligible for certification at the Emergency Medical Technician-Basic level through the Utah Bureau of Emergency Medical Services.

Certificate in Paramedic **34 CREDITS**

Discipline Core Requirements: 34 Credits

- Complete the following:
- FSE 2500 Paramedic I 5.0
 - FSE 2510 Paramedic I Lab 3.0
 - FSE 2520 Paramedic II 7.0
 - FSE 2530 Paramedic III 4.0
 - FSE 2540 Paramedic IV 6.0
 - FSE 2550 Paramedic Work Experience 6.0
 - ZOOL 1090 Introduction to Human Anatomy and Physiology 3.0

Graduation Requirements:

- 1 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.) Upon completion, students are eligible to apply for certification as an Emergency Medical Technician/Paramedic through the Utah Bureau of Emergency Medical Services.

AAS in Fire Science **63 CREDITS**

General Education Requirements: 16 Credits

- ENGL 1010 Introduction to Writing 3.0
- or ENGL 1060 Career Writing for Technology (3.0)
- FSF 1350 Mathematics for the Fire Service 3.0
- or MAT 1010 Intermediate Algebra (4.0)
- or MAT 1000 Integrated Beginning and Intermediate Algebra (5.0)

- Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended) 3.0
- Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended) 3.0
- Any approved Biology or Physical Science Distribution Course 3.0
- Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended) 1.0

Emphasis:

Complete one of the following:

- Fire Officer 47.0
- Firefighter/Paramedic 47.0
- Wildland Fire Management 47.0

Graduation Requirements:

- 1 Completion of a minimum of 63 semester credits.
- 2 Overall grade point average of 2.0 (C) or above.
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

Emphasis in Fire Officer **47 Credits**

Emphasis Requirements: 21 Credits

Choose 21 credits from the following: 21.0

- FSO 2020 Incident Command (3.0)
- FSO 2030 Fire Inspector I (3.0)
- FSP 2310 Fire Investigator I (3.0)
- FSO 2050 Fire Protection and Detection Systems (3.0)
- FSO 2060 Fire Service Management and Administration (3.0)
- FSO 2080 Building Construction for the Fire Services (3.0)
- FSO 2090 Fire Officer I (3.0)
- FSO 2100 Fire Supervision and Leadership (3.0)
- FSO 2110 Fire Instructor I and II (3.0)
- FSW 2500 Wildland/Urban Interface Fire Protection (3.0)

Emphasis Elective Requirements: 26 Credits

- Any Fire Science or related advisor approved courses 26.0

NOTE: Upon completion, students are eligible to apply for certification at the Fire Inspector I, Fire Investigator, Fire Service Instructor I, Fire Service Instructor II, Fire Officer I, and Fire Officer II levels through the Utah Fire Service Certification system.

Emphasis in Firefighter/Paramedic **47 Credits**

Emphasis Requirements: 31 Credits

- FSE 2500 Paramedic I 5.0
- FSE 2510 Paramedic I Lab 3.0
- FSE 2520 Paramedic II 7.0
- FSE 2530 Paramedic III 4.0
- FSE 2540 Paramedic IV 6.0
- FSE 2550 Paramedic Work Experience 6.0

Emphasis Elective Requirements: 16 Credits

- Any Fire Science or related advisor approved courses 16.0

NOTE: Upon completion, students are eligible to apply for certification as an Emergency Medical Technician-Paramedic through the Utah Bureau of Emergency Medical Services

Emphasis in Wildland Fire Management **47 Credits**

Emphasis Requirements: 29 Credits

- FSW 1400 Wildland Firefighting Fundamentals 4.0
- FSW 1410 Wildland Firefighter Practicum I (5.0) 5.0
- FSW 1420 Wildland Firefighter Practicum II (5.0) 5.0
- FSW 2430 Wildland Firefighter Practicum III (5.0) 5.0
- FSW 2300 Wildland Firefighter Basics (5.0) 5.0
- FSW 2400 Advanced Wildland Firefighter (5.0) 5.0

Emphasis Elective Requirements: 18 Credits

- Any Fire Science or advisor approved courses 18.0

AS Pre Major in

Fire Science **60 CREDITS**

General Education Requirements: 35 Credits

Complete the following:

- ENGL 1010 Introduction to Writing 3.0
 - ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
 - or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
- MATH 1040 Introduction to Statistics (recommended for Social Science majors) (3.0)
- MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)

Complete one of the following: 3.0

- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 25 Credits

- FSF 1000 Survey of Fire and Rescue Emergency Services 3.0

or Sufficient public emergency services work experience

- Fire Science or related advisor approved courses 22.0

Graduation Requirements:

- 1 Completion of a minimum of 60 semester credits.
- 2 Overall grade point average of 2.0 (C) or above.
- 3 Residency hours--minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

BS in Public Emergency Services

Management **120 CREDITS**

General Education Requirements: 35 Credits

- ENGL 1010 Introduction to Writing 3.0
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
- or ENGL 2020 Intermediate Writing--Science and Technology (3.0)

Complete one of the following: 3.0

- MATH 1030 Quantitative Reasoning (3.0)
- MATH 1040 Introduction to Statistics (3.0)
- MATH 1050 College Algebra (4.0)

Complete one of the following: 3.0

- HIST 1700 American Civilization (3.0)
- HIST 2700 US History to 1877 (3.0)
- and HIST 2710 US History since 1877 (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

Complete the following:

- PHIL 2050 Ethics and Values 3.0
- HLTH 1100 Personal Health and Wellness (2.0) or PES 1097 Fitness for Life 2.0

Distribution Courses

- Biology 3.0
- Physical Science 3.0
- Additional Biology or Physical Science 3.0
- Humanities Distribution 3.0
- Fine Arts Distribution 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 43 Credits

- FSF 1000 Survey of Fire and Rescue Emergency Services 3.0

or Sufficient public emergency services work experience

- PESM 3300 Public Program Administration 3.0
- PESM 3500 Analytical Research Approaches to Public Emergency Services 3.0
- PESM 3700 Master Planning for Public Emergency Services 3.0
- PESM 3600 Customer and Public Relations for the Emergency Services 3.0
- PESM 3800 Public Administration and Emergency Management 3.0
- PESM 4100 Health and Safety Program Management 3.0
- PESM 4200 Principles of Disaster and Emergency Management 3.0
- PESM 4500 Managing Emergency Medical Services 3.0

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- PESH 4900 Advanced Seminar in Public Emergency Services Leadership 3.0
- ACC 3000 Financial Managerial and Cost Accounting Concepts 4.0
- ENGL 3320 Grant and Proposal Writing 3.0
- LEGL 3000 Business Law 3.0
- MGMT 3430 Human Resource Management 3.0

Elective Requirements: 42 Credits

- Any Fire Science or advisor approved courses. 21.0
- Any courses 1000 or higher 21.0

Graduation Requirements:

- 1 Completion of a minimum of 120 semester credits.
- 2 Overall grade point average of 2.0 (C) or above, with completion of each PESH class with a "C-" or higher.
- 3 Residency hours -- minimum of 30 credit hours through course attendance at UVSC, with at least 10 hours earned in the last 45 hours.
- 4 Completion of GE and specified departmental requirements.

BS in Technology

Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in

Fire Science 45 Credits

Emphasis Requirements: 45 Credits

Complete 45 credits from the following:

- PESH 3300 Public Program Administration (3.0)
- PESH 3700 Master Planning for Public Emergency Services (3.0)
- PESH 4100 Health and Safety Program Management (3.0)
- PESH 4500 Managing Emergency Medical Services (3.0)
- PESH 4900 Advanced Seminar in Public Emergency Services Leadership (3.0)
- FSD 1330 Fundamentals of Apparatus Operation (3.0)
- FSD 1340 Fire Apparatus Skill (3.0)
- FSE 2500 Paramedic I (5.0)
- FSE 2510 Paramedic I Lab (3.0)
- FSE 2520 Paramedic II (7.0)
- FSE 2530 Paramedic III (4.0)
- FSE 2540 Paramedic IV (6.0)
- FSE 2550 Paramedic Work Experience (6.0)
- FSF 1000 Survey of Fire and Rescue Emergency Services (3.0)
- FSF 1010 Firefighting Fundamentals I (3.0)
- FSE 1140 Emergency Medical Technician--Basic (6.0)
- FSF 1210 Firefighting Skills I (4.0)
- FSF 1220 Firefighting Fundamentals and Skills II (3.0)
- FSW 1400 Wildland Firefighting Fundamentals (4.0)
- FSF 1310 Recruit Candidate Academy--Fundamentals (8.0)
- FSF 1320 Recruit Candidate Academy--Skills (3.0)
- FSF 1330 Recruit Candidate Academy--Operations (3.0)
- FSF 1340 Hazardous Materials First Responder (3.0)
- FSF 1350 Mathematics for the Fire Service (3.0)
- FSH 2410 Hazardous Materials Technician Fundamentals (3.0)
- FSH 2420 Hazardous Materials Technician Skills (2.0)
- FSH 2440 Hazardous Materials Chemistry (3.0)
- FSO 2020 Incident Command (3.0)
- FSO 2030 Fire Inspector I (3.0)
- FSP 2310 Fire Investigator I (3.0)
- FSO 2050 Fire Protection and Detection Systems (3.0)
- FSO 2060 Fire Service Management and Administration (3.0)
- FSO 2080 Building Construction for the Fire Services (3.0)
- FSO 2090 Fire Officer I (3.0)
- FSO 2100 Fire Supervision and Leadership (3.0)
- FSO 2110 Fire Instructor I and II (3.0)
- FSO 211A Fire Service Instructor I (1.0)
- FSO 211B Fire Service Instructor II (2.0)
- FSO 2200 Fire Officer Work Experience (3.0)
- FSW 2500 Wildland/Urban Interface Fire Protection (3.0)
- FSP 2320 Fire Investigator II (3.0)
- FSP 2350 Public Fire Education I (2.0)

- FSR 2180 Environmental Rescue (3.0)
- FSR 2700 Technical Rescue Principles (3.0)
- FSR 2740 Rope Rescue (3.0)

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- FS, Fire Science
- FSD, Fire Science Driver Operator
- FSE, Fire Science EMT
- FSF, Fire Science Firefighter
- FSH, Fire Science, Hazardous Materials
- FSO, Fire Science Officer
- FSP, Fire Science Inspector
- FSR, Fire Science Rescue
- FSS, Fire Science Safety
- FSW, Fire Science Wildland
- PESH, Public and Emergency Services Management