

# **Southwestern Adventist University**

**Undergraduate Bulletin Supplement 2013-2014**

**Southwestern Adventist University**

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**Southwestern Adventist University: Undergraduate Bulletin  
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**Bachelor of Music Education (BME) - deleted from Music Program**



# Fire Science

Fire Science encompasses leadership and service to assist in the growing fire science segment of the economy. In the world of fire and emergency operations, knowledge of how to best respond quickly requires training that incorporates the changing conditions. The Fire Science program prepares students by teaching them the latest industry principles, theories, and best practices. Students learn fire safety, tactical operations, leadership and community fire outreach and response skills.

Southwestern offers Associates of Applied Science (A.A.S.) degree in cooperation with Training Division in Crowley, Texas that prepares students for Fire Science careers. Southwestern's program includes:

- Associates of Applied Science (A.A.S.) affiliated with Training Division of Crowley, TX.

## Student Learning Outcomes

The goals of the Fire Science program are to provide each student with the necessary knowledge, skills, and abilities to function as a Firefighter/EMT. Upon completion of this program, the student will be able to demonstrate:

1. Subject matter proficiency
2. A variety of Firefighter skills to meet State certification requirements
3. A variety of EMT skills to meet State certification requirements
4. Fire Inspector competencies needed for State certification
5. Critical thinking in addressing discipline-based questions
6. Familiarity with standards, expectations and ethics in the discipline

## Admission Criteria

1. Meet all admission requirements for enrollment at Southwestern Adventist University.
2. Complete all steps in the Fire Science Application Process.
3. Complete all Fire Science pre-requisites:

- a. Minimum score of 12 on the Nelson Denny

Students scoring below 12 may enter the program on a probationary basis and must take RDNG 021 and ENGL 021

- b. Minimum of 13 on the MAPLE.

Students scoring below 13 may enter the program on a probationary basis and must take MATH 013.

- c. Minimum score of 70 on the Computer Proficiency Test

Students scoring below 70 may enter the program on a probationary basis and must take CSIS 102.

- d. Minimum high school GPA of 2.75

Transfer students must have a minimum cumulative GPA of 2.5.

# Fire Science

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## Fire Science Application Process

1. Complete and submit a Fire Science application (available from the Kinesiology department).
2. Obtain two letters of recommendation from individuals other than relatives.
3. Submit a statement of purpose—a one page, typed essay describing reasons why you would like to become a firefighter.
4. Complete and submit all health records.
  - a. Physicians release for strenuous physical activity
  - b. Submit to, pay for, and pass a 10-panel drug screen
  - c. Provide documented proof of vaccinations: MMR, TB, Hepatitis B, Influenza, Meningitis and Tetanus
5. Submit to, pay for, and pass a criminal background check.

## Continuation and Progression Policies

1. The Department of Kinesiology reserves the right to require withdrawal of a Fire Science student from the program or a Fire Science course who fails to demonstrate competency and/or displays inappropriate/unprofessional or unsafe behavior.
2. Students must maintain a cumulative GPA of 2.75 to progress in Fire Science and to graduate. No grade lower than C will be accepted in Fire Science courses. Students whose GPA falls below 2.75 at any time during the program must raise their GPA to 2.75 or better within the next semester to continue in the program. If the GPA remains below 2.75, the student will be permanently dropped from the program.
3. Students are allowed only one repeat of one Fire Science course.
4. Fire Science courses dropped within one (1) week after the midterm date on the academic calendar will not count as a completed course. A Fire Science course that is dropped after that time will be treated as a completed Fire Science course.
5. Students who fail a course may progress only with permission of the Kinesiology Department.
6. All Fire Science courses are to be completed within a three-year time frame.
7. Students cannot take the Texas Fire Certification exam until all degree requirements have been met.

## Termination Policy

The following situations or conditions will result in termination from the fire science program:

1. Unsafe, unethical, or unprofessional fire science practice
2. GPA less than 2.75 for two consecutive semesters
3. Unresolved issues with the drug screen and background checks

## Readmission Policy

Readmission is possible for Fire Science students who left the program in good standing, and according to the Fire Science progression criteria. Students who have been out of the program will return under the most current bulletin. A new background check and drug screen must be completed and approved before being readmitted.

## Transportation Policies

Students are expected to provide their own transportation to and from off-campus. Faculty will not provide transportation.

## On-campus Residency and Transfer Requirements

Complete a minimum of 15 semester credit hours in residence. The last 12 hours before graduation must be taken in residence at SWAU. Transfer credits will be awarded according to University policy.

## Fire Science, A.A.S.

<b>ENGL 121</b>	<b>Freshman Composition <i>or</i></b>	
COMM 111	Speech	3
RLGN 212	Christian Ethics	3
RLGN	Elective	3
KINT 111	Health and Wellness	3
POLS 211	National & Texas Constitution	3
BIOL 101	Anatomy & Physiology	4
	Elective	2
FIRS 101	Firefighter Certification I	3
FIRS 102	Firefighter Certification II	3
FIRS 103	Firefighter Certification III	3
FIRS 104	Firefighter Certification IV	3
FIRS 201	Firefighter Certification V	3
FIRS 202	Firefighter Certification VI	3
FIRS 203	Firefighter Certification VII	3
FIRS 204	Firefighter Practicum (Boot Camp)*	1
FIRT 211	Internship	3
FIRT 212	Firefighter Health & Safety	3
FIRT 213	Fire Prevention, Codes, and Inspection	3
FIRT 214	Fire Investigator <i>or</i>	
FIRS 215	Fire Apparatus Pumper – Driver/ Operator	3
EMSP 201	EMT Basic	4
EMSP 202	EMT Clinical	1
	<b>Total:</b>	<b>60</b>

\*Includes all laboratory elements for: FIRS 101, 102, 103, 104, 201, 202 and 203

## Boot Camp

Boot camp is an intensive hands-on lab/skills session that is completed in a special summer term after successful completion of the freshman year. The candidate will sign up for a May, June, July, or August Boot Camp offering before the end of their first semester. Boot Camp is completed Training Division in Crowley, TX. Students will be participating in an intensive 2-week program designed to complete the practical (skills) portion of the Fire Academy. Every effort has been made to replicate a real working fire station to make the Boot Camp experience in every way a slice of the professional firefighter's life. The entire academy class will be housed in a new, state of the art training facility. Students will be responsible for cleaning and basic

housekeeping for the facility. Most hands-on training will take place in the fire yard, on the apparatus, fire tower, in a burning building, or at other appropriate facilities. Students will be required to pass the final evaluation with at least an 80% in order to be permitted to test for their certificate with the Texas Commission on Fire Protection. The final evaluation is a 200 question, multiple-choice exam that will be given at the boot camp. Failure in any of these components will require remedial training and a re-test.

### Courses

#### **FIRS 101 - Firefighter Certification I (3 hours)**

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: History of the fire service, orientation to the fire service, firefighter qualifications and safety, fire service communications, incident command system, and fire behavior. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

#### **FIRS 102 - Firefighter Certification II (3 hours)**

Prerequisite: FIRS 101

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Building construction, portable fire extinguishers, firefighter tools and equipment, ropes and knots, response and size-up. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

#### **FIRS 103 - Firefighter Certification III (3 hours)**

Prerequisite: FIRS 102

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Forcible entry, ladders, search & rescue, ventilation, and water supply. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

#### **FIRS 104 - Firefighter Certification IV (3 hours)**

Prerequisite: FIRS 103

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Fire hose, nozzles, streams and foam, firefighter survival, salvage and overhaul, firefighter rehabilitation, and wild land and ground fires. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

#### **FIRS 201 - Firefighter Certification V (3 hours)**

Prerequisite: FIRS 104

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Fire suppression, pre-incident planning, fire and emergency medical care, emergency medical care, vehicle rescue and extrication, and assisting special rescue teams. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 202 - Firefighter Certification VI (3 hours)**

Prerequisite: FIRS 201

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Hazardous Materials Awareness, Hazardous Materials Operations, Fire Prevention and Public Education, Fire Detection, Protection, and suppression systems, and fire cause determination. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 203 - Firefighter Certification VII (3 hours)**

Prerequisite: FIRS 202

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Firefighter 1 and 2 skills, and Hazardous Materials awareness and operations skills. The course also includes all laboratory elements for FIRS 101, 102, 103, 201, 202, and 203. Course must be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 204 - Fire Fighting Practicum - "Boot Camp" (1 hour)**

Prerequisite: FIRS 203

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: live fire operations, hands on skills completion, skills testing and evaluation. Course must be taken in conjunction with Firefighter Certification II, III, IV, V, VI, VII, and VIII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**EMSP 201 - EMT Basic (4 hours)**

This course is designed to teach the student how to apply operational principles in out-of-hospital environments and demonstrate lifesaving care to patients at the Emergency Medical Technician (EMT) level and display professional and ethical behaviors expected of emergency personnel.

**EMSP 202 - EMT Clinical (1 hour)**

Prerequisite: EMSP 201

This course is designed to teach the student the hands-on skills necessary for the Emergency Medical Technician (EMT) level, as well as satisfy EMS clinical and ambulance rotation requirements in order to be certified as an EMT by the Texas Department of Health.

**FIRT 211 - Internship (3 hours)**

Prerequisite: FIRS 204

This course is designed give the student "real world" fire service experience through internship with a local fire department.

**FIRT 212 - Firefighter Health & Safety (3 hours)**

Prerequisite: FIRS 204

This course teaches the student fire ground survival techniques, firefighter safety and health, practices and procedures related to emergency and non-emergency operations and components of a firefighter wellness program.

## Fire Science

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### **FIRT 213 - Fire Prevention, Codes, and Inspection (3 hours)**

Prerequisite: FIRS 204, TCFP Certification

This course will train the student to be a certified fire inspector. The student will learn to apply provisions of local building and fire prevention codes to fire prevention inspections; and describe fire inspection practices and procedures including hazard recognition and correction.

### **FIRT 214 - Fire Investigation (3 hours)**

Prerequisite: FIRS 204, TCFP Certification

This course will train the student to be a certified fire investigator. The student will learn to identify the point of origin and the cause of the fire; list possible motives of fire setters; and describe the elements of investigation practices.

### **FIRST 215 - Fire Apparatus Pumper - Driver/Operator (3 hours)**

Prerequisite: FIRS 204, TCFP Certification

This course will train the student to become certified to drive a pumper(engine) fire apparatus. The course is designed to teach the student to demonstrate competencies set forth in the TCFP curriculum for Driver/Operator-Pumper.

## Fire Science, A.A.S. through Distance Education

### Admission

This program is designed for individuals who have completed the fire science courses at Training Division and want to earn an Associate of Applied Science degree in Fire Science. Students seeking admission to the program must submit the following materials to the Office of Distance Education.

1. A formal application for admission
2. Official transcripts of all college or university course work
  - Applicants with fewer than 24 transferable semester credit hours must also submit an official high school transcript *or* official GED test results *and*
  - SAT or ACT score report
3. Official Training Division transcript of fire science course work
4. Formal letter of recommendation from the Training Division
5. Statement of purpose – one page, typed essay describing reasons for desiring to complete a college degree in fire science.

Students will be informed of admission with a formal Letter of Acceptance. Admission to the program is on a space available basis each semester.

### Cost of the Distance Education Program

Distance education tuition is \$380 (50% of regular) per credit hour. There are no additional fees. There are no scholarship or payment plans for this program. All charges must be covered at the time of registration. Students may apply for financial aid and are encouraged to contact the Office of Student Financial Services for assistance.

### **Academic Program**

The A.A.S. degree in Fire Science consists of 60 semester credit hours. Twenty seven of these hours will be fire science and emergency medical technician courses transferred from Training Division. Thirty three additional semester hours will be completed consisting of the courses specified in the A.A.S. degree requirements. Graduates will complete a minimum of 24 semester credit hours in residence. They will also meet the required levels of mathematics and computer application proficiency. Transfer credit will be awarded according to University policy. The degree can generally be completed over three semesters, or one calendar year.

