



## Fire Science

Also see *Fire Academy*

### Department Website:

<http://www.collin.edu/firescience>

### Program Options:

**AAS – Fire Officer Certification**  
**OSA – Fire Officer Candidate**  
**Certificate Level 1 – Fire Officer**

The firefighter with a well-balanced educational background will be better prepared to serve and protect the community. Collin's Fire Science program is designed to give current and future Fire Officers the certifications and experience necessary for effective decision-making and leadership skills in the fire department. Students acquire the technical knowledge needed to combat the fire problems created by modern living and develop leadership skills required of the Fire Officer. The program meets the requirements of the Texas Commission on Fire Protection (TCFP). Students certified in Texas as a Basic Firefighter are eligible to take the State Certification Exams for Fire Instructor I, II; and Fire Officer I, II after successfully completing selected courses in the Fire Officer Certificate program. Firefighters interested in enrolling in the Fire Officer Certification program should contact the Fire Science Office at 972.548.6836.

Full-time, full-paid firefighters employed by any political subdivision or active volunteer firefighters meeting the firefighter exemption criteria enrolled in the Fire Science courses within Collin's Fire Science program may be exempt from paying tuition and laboratory fees for select credit courses.

Students planning to transfer to a college or university should check with Collin academic advisors. Also check the degree requirement of the intended transfer college prior to beginning this program to verify course degree applicability.

### FUNCTIONAL ABILITIES / CORE PERFORMANCE STANDARDS STATEMENT

Regulations governing this program require all applicants to meet specific functional abilities – some are without accommodations – for admission and / or successful completion of the program. The specific functional requirements are found in the Functional Abilities / Core Performance Standards documents provided in the program information and application

packets. Students who think they may not be able to meet the functional standards and need accommodation are encouraged to contact the ACCESS department or Program Director as soon as this program is of interest.

Registration is by permission only. Additional information may be obtained from the Fire Science/EMS Office, the Health Sciences, Biology and Chemistry Office or at the Fire Science website:

<http://www.collin.edu/firescience> .

## AAS – Fire Officer Certification

60 credit hours

### FIRST YEAR

#### First Semester

ECON 1301 Introduction to Economics <sup>1</sup>  
ENGL 1301 Composition I  
MATH 1332 Contemporary Mathematics  
(Quantitative Reasoning)  
(See [Mathematics options](#))  
PSYC 2301 General Psychology <sup>2</sup>

#### Second Semester

CHEM 1405 Introduction to Chemistry I <sup>3</sup>  
FIRT 1315 Hazardous Materials I  
GOVT 2306 Texas Government (Texas constitution and topics)  
GEN ED [Humanities / Fine Arts](#) course  
SPCH 1311 Introduction to Speech  
Communication  
(See [Speech](#) Options)

### SECOND YEAR

#### First Semester

ENGL 2311 Technical and Business Writing  
FIRT 1327 Building Construction in the Fire Service  
FIRT 1442 Fire Officer I  
FIRT 2305 Fire Instructor I  
FIRT 2309 Firefighting Strategies and Tactics I

#### Second Semester

FIRT 1338 Fire Protection Systems  
FIRT 1349 Fire Administration II (Capstone)  
FIRT 1443 Fire Officer II  
FIRT 2307 Fire Instructor II  
FIRT 2351 Company Fire Officer

1. May substitute ECON-2301 or ECON-2302
2. May substitute ANTH-2302, ANTH-2346, ANTH-2351, GOVT-2305, HIST-1301, HIST-1302, HIST-2301, SOCI-1301 or SOCI-1306
3. May substitute BIOL-1408

## **OSA – Fire Officer Candidate**

10 credit hours

FIRT 1442 Fire Officer I  
FIRT 2305 Fire Instructor I  
FIRT 2309 Firefighting Strategies and Tactics I

*Note: Some of the courses in this award program may require prerequisites. Please check the course descriptions.*

## **Certificate Level 1 – Fire Officer**

17 credit hours

### **First Semester**

FIRT 1442 Fire Officer I  
FIRT 2305 Fire Instructor I

### **Second Semester**

FIRT 1443 Fire Officer II  
FIRT 2307 Fire Instructor II  
FIRT 2309 Firefighting Strategies and Tactics I  
(Capstone)