FIRE SERVICE OPERATIONS, ASSOCIATE IN APPLIED SCIENCE



College(s): MX

Program Code: 0414

The Fire Service Operations degree focuses on fire suppression and prevention and general emergency response operations with a target population of the college student interested in a career in emergency and fire service but not yet employed by a department.

Program Requirements

Survival

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Code	Title	Hours
General Education	n Coursework	
ENGLISH 101	Composition	3
ENGLISH 102	Composition	3
or SPEECH 10	I Fundamentals of Speech Communication	
MATH 118	General Education Math (or higher gen ed math course)	4
PSYCH 201	General Psychology (or higher General Education Psychology)	n 3
SOC 201	Intro To the Study Of Society (or higher General Education Sociology)	3
Select a Human D	Diversity Course that is a Gen Ed. ¹	3
Select one of the	following science courses:	4
BIOLOGY 116	Introduction to Anatomy And Physiology	
BIOLOGY 121	Biology I	
BIOLOGY 226	Human Structure and Function I	
CHEM 121	Basic Chemistry I	
CHEM 201	General Chemistry I	
Required Progran	n Core	
EMT 101	Emergency Medical Technician-Basic	8
FIREMGT 101	Principles of Emergency Services	3
FIREMGT 103	Fire Behavior and Combustion	3
FIREMGT 197	Principles of Emergency Responder Safety and	3

FIREMGT 202	Building Construction for Fire Science	3
FIREMGT 203	Fire Suppression and Protection Systems	3
FIREMGT 210	Principles of Fire Prevention	3
Program Electives	s	
Select a minimum	of 12 credits of the following:	12
FIREMGT 102	Strategies and Tactics I	
FIREMGT 104	Occupational Safety & Health for Emergency Services	
FIREMGT 198	Strategies and Tactics II	
FIREMGT 205	Chemistry of Hazardous Materials	
FIREMGT 212	Fire Investigation I	
FIREMGT 213	Fire Investigation II	
FIREMGT 220	Fire Instructor I	
FIREMGT 221	Fire Instructor II	
Total Hours		61

Human Diversity Courses < City Colleges of Chicago (ccc.edu) (https://catalog.ccc.edu/hd/)

Pathway

This is an **example course sequence** for students interested in earning a degree in Fire Service Operations. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) degree in Fire Service Operations. It does not represent a contract, nor does it guarantee course availability. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Check the program webpage (https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Fire-Science.aspx) for details about session dates and times.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

FIREMGT 220 FIREMGT 198	Strategies and Tactics II ²	3
FIREMGT 220	Fire Instructor I	3
Semester 4 FIREMGT 210	Principles of Fire Prevention	3
	Hours	15
PSYCH 201	General Psychology	3
FIREMGT 202	Building Construction for Fire Science	3
FIREMGT 203	Fire Suppression and Protection Systems	3
FIREMGT 197	Principles of Emergency Responder Safety and Survival	3
FIREMGT 212	Fire Investigation I ²	3
Semester 3		
THEMOT TOO	Hours	15
FIREMGT 103	Fire Behavior and Combustion	3
MATH 118	Emergency Medical Technician-Basic General Education Math (or higher gen ed math course) 1	8
Semester 2 EMT 101	Emerganov Medical Technician-Racia	0
Semester 2	Hours	16
Select an HD course		3
CHEM 201	General Chemistry I	
CHEM 121	Basic Chemistry I	
BIOLOGY 226	Human Structure and Function I	
BIOLOGY 121	Biology I	
BIOLOGY 116	Introduction to Anatomy And Physiology	
Select one of the foll	owing science courses. ¹	4
FIREMGT 101	Principles of Emergency Services	3
english 102 or SPEECH 101	Composition ¹ or Fundamentals of Speech Communication	3
ENGLISH 101	Composition ¹	3
Semester 1		Hours

General Education Requirement

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Program Elective (p. 2)

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Human Diversity Courses < City Colleges of Chicago (ccc.edu) (https://catalog.ccc.edu/hd/)

Program Elective

Associate in Applied Science Electives

Code	Title	Hours
FIREMGT 102	Strategies and Tactics I	3
FIREMGT 104	Occupational Safety & Health for Emergency Services	3
FIREMGT 198	Strategies and Tactics II	3
FIREMGT 205	Chemistry of Hazardous Materials	3
FIREMGT 212	Fire Investigation I	3
FIREMGT 213	Fire Investigation II	3

FIREMGT 220	Fire Instructor I	3
FIREMGT 221	Fire Instructor II	3

Choose your courses with your College Advisor.

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

Firefighters Job Description

Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardousduty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 th Percentile	\$39,109
Median 50 th Percentile	\$78,109
Senior-Level 90 th Percentile	\$116,841
Hourly Wages	
Entry-Level 10 th Percentile	\$19
Median 50 th Percentile	\$38
Senior-Level 90 th Percentile	\$56

Annual Job Openings

571 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	45.25%
A certificate	24.60%
Some college	19.50%
An Associate degree	7.15%
A Bachelor's degree	0.43%
A Master's or Professional degree	2.96%
A Doctoral degree or more	0.10%

3.49% continue their education beyond an associate degree

Fire Inspectors and Investigators Job Description

Inspect buildings to detect fire hazards and enforce local ordinances and state laws, or investigate and gather facts to determine cause of fires and explosions.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardousduty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 ¹¹ Percentile	\$37,595
Median 50 th Percentile	\$81,511
Senior-Level 90 th Percentile	\$177,535

Hourly Wages

Entry-Level 10 th Percentile	\$18
Median 50 th Percentile	\$39
Senior-Level 90 th Percentile	\$85

Annual Job Openings

24 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	29.44%
A certificate	27.49%
Some college	26.01%
An Associate degree	12.82%
A Bachelor's degree	2.19%
A Master's or Professional degree	2.04%
A Doctoral degree or more	0.00%

4.23% continue their education beyond an associate degree

Forest Fire Inspectors and Prevention Specialists

Job Description

Enforce fire regulations, inspect forest for fire hazards, and recommend forest fire prevention or control measures. May report forest fires and weather conditions.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardousduty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 th Percentile	\$63,300
Median 50 th Percentile	\$63,424
Senior-Level 90 th Percentile	\$100,664

Hourly Wages

Entry-Level 10 th Percentile	\$30
Median 50 th Percentile	\$30
Senior-Level 90 th Percentile	\$48

Annual Job Openings

3 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	31.63%
A certificate	8.92%
Some college	17.52%
An Associate degree	17.90%
A Bachelor's degree	24.03%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

24.03% continue their education beyond an associate degree