FIRE SCIENCE MANAGEMENT, ASSOCIATE IN APPLIED SCIENCE



College(s): MX

Program Code: 0413

The Fire Science Management degree is designed to concentrate on management and officer training with a target population of those who are already employed in a fire service and particularly addressing the specific higher education needs of the Chicago Fire Department (CFD).

Program Requirements

•	•	
Code	Title	Hours
General Education	n Coursework	
ENGLISH 101	Composition	3
MATH 118	General Education Math (or higher Gen Ed math course)	4
PSYCH 201	General Psychology	3
BIOLOGY 116	Introduction to Anatomy And Physiology	4
or BIOLOGY 12	1Biology I	
or BIOLOGY 22	6Human Structure and Function I	
or CHEM 121	Basic Chemistry I	
or CHEM 201	General Chemistry I	
Select a General E	Education course that is a Human Diversity course	e. 3
Required Program	n Core	
EMT 101	Emergency Medical Technician-Basic	8
FIREMGT 101	Principles of Emergency Services	3
FIREMGT 102	Strategies and Tactics I	3
FIREMGT 103	Fire Behavior and Combustion	3
FIREMGT 197	Principles of Emergency Responder Safety and Survival	3

EIDEMOT 100	Stratagies and Testica II	
FIREMGT 198	Strategies and Tactics II	
I III LIVIO I I I I	Badio indiacite dominaria	
FIREMGT 111	Basic Incident Command	
FIREMGT 106	Fire Apparatus and Equipment Operator	
TINLINGT 104	Services	
FIREMGT 104	Occupational Safety & Health for Emergency	
Select a minimum	n of nine credit hours of the following:	9
Program Electives		
	•	3
FIREMGT 210	Principles of Fire Prevention	3
FIREMGT 204	Management and Leadership II	3
FIREMGT 203	Fire Suppression and Protection Systems	3
FIREMGT 202	Building Construction for Fire Science	3
	Management and Leadership I	3

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

Pathway

This is an **example course sequence** for students interested in earning a degree in Fire Science Management. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) degree in Fire Science Management. 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.

Semester 1		Hours
Semester One		
ENGLISH 101	Composition ¹	3
FIREMGT 101	Principles of Emergency Services	3
FIREMGT 102	Strategies and Tactics I	3
FIREMGT 200	Management and Leadership I	3
	Hours	12
Semester 2		
Semester Two		
MATH 118	General Education Math ^{1, 4}	4
FIREMGT 103	Fire Behavior and Combustion	3
FIREMGT 204	Management and Leadership II	3
	Hours	10
Semester 3		
Semester Three		
BIOLOGY 116	Introduction to Anatomy And Physiology ¹	4
or BIOLOGY 121	or Biology I	
or BIOLOGY 226	or Human Structure and Function I	
or CHEM 121	or Basic Chemistry I	
or CHEM 201	or General Chemistry I	
PSYCH 201	General Psychology	3
	Hours	7
Semester 4		
Semester Four		
Any General Educatio	n, Human Diversity Course ¹	3
FIREMGT 197	Principles of Emergency Responder Safety and Survival	3
FIREMGT 202	Building Construction for Fire Science	3
FIREMGT 210	Principles of Fire Prevention	3
	Hours	12
Semester 5		
Semester Five		
FIRE MGT 106	2	3
FIREMGT 201	Fire Service Hydraulics ²	3
FIREMGT 203	Fire Suppression and Protection Systems	3
FIREMGT 212	Fire Investigation I ²	3
	Hours	12
Semester 6		
Semester Six		
EMT 101	Emergency Medical Technician-Basic	8
	Hours	8

- 1 General Education Requirement
- ² Program Elective (p. 2)
- 3 Human Diversity Courses < City Colleges of Chicago (ccc.edu) (https://catalog.ccc.edu/hd/)</p>
- or higher Gen Ed math course

Program ElectiveS

Associate in Applied Science Electives

Code	Title	Hours
FIREMGT 104	Occupational Safety & Health for Emergency Services	3
FIRE MGT 106		
FIRE MGT 111		
FIREMGT 198	Strategies and Tactics II	3
FIREMGT 205	Chemistry of Hazardous Materials	3
FIREMGT 206	Management and Operations III	3
FIREMGT 211	Management Operations IV	3
FIREMGT 212	Fire Investigation I	3
FIREMGT 213	Fire Investigation II	3
FIREMGT 220	Fire Instructor I	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).

First-Line Supervisors of Firefighting and Prevention Workers

Job Description

Directly supervise and coordinate activities of workers engaged in firefighting and fire prevention and control.

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" Percentile	\$78,327
Median 50 th Percentile	\$130,313
Senior-Level 90 th Percentile	\$199,057
Hourly Wages	
Entry-Level 10 th Percentile	\$38
Median 50 th Percentile	\$63
Senior-Level 90 th Percentile	\$96

Annual Job Openings

90 annual openings in Cook County

National Education Attainment

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

A high school diploma or less 32.30% A certificate 18.72% Some college 11.76% An Associate degree 23.84% A Bachelor's degree 13.24% A Master's or Professional degree 0.02% A Doctoral degree or more 0.12%	Degree Program	% of Jobs
Some college 11.76% An Associate degree 23.84% A Bachelor's degree 13.24% A Master's or Professional degree 0.02%	A high school diploma or less	32.30%
An Associate degree 23.84% A Bachelor's degree 13.24% A Master's or Professional degree 0.02%	A certificate	18.72%
A Bachelor's degree 13.24% A Master's or Professional degree 0.02%	Some college	11.76%
A Master's or Professional degree 0.02%	An Associate degree	23.84%
•	A Bachelor's degree	13.24%
A Doctoral degree or more 0.12%	A Master's or Professional degree	0.02%
	A Doctoral degree or more	0.12%

13.38% continue their education beyond an associate degree

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" Percentile	\$40,108
Median 50 th Percentile	\$91,270
Senior-Level 90 th Percentile	\$120,938

Hourly Wages

Entry-Level 10 th Percentile	\$19
Median 50 th Percentile	\$44
Senior-Level 90 th Percentile	\$58

Annual Job Openings

650 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 th Percentile	\$46,265
Median 50 th Percentile	\$75,361
Senior-Level 90 th Percentile	\$130,409

Hourly Wages

Entry-Level 10" Percentile	\$22
Median 50 th Percentile	\$36
Senior-Level 90 th Percentile	\$63

Annual Job Openings

22 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	\$38,219
Median 50 th Percentile	\$60,289
Senior-Level 90 th Percentile	\$102.620

Hourly Wages

Entry-Level 10 th Percentile	\$18
Median 50 th Percentile	\$29
Senior-Level 90 th Percentile	\$49

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