

Fire Science | Associate in Applied Science

Field of Study Code: FIRE.AAS

Catalog Description:

The Fire Science Technology program encompasses both fire fighting and emergency medical services. The Fire Science degree focuses on the theory and techniques of fire fighting, inclusive of the Emergency Medical Technician curriculum, required by most fire departments. After completion of the degree, state certifications may be awarded through the Office of the State Fire Marshal (OSFM) if state requirements are met.

Program Requirements21

Fire 1100	Introduction to Emergency Services	3
Fire 1112*	Principles of Fire Prevention	3
Fire 2201	Extinguishing and Alarm Systems.....	3
Fire 2210	Fire Apparatus	3
Fire 2213*	Principles of Fire Behavior and Combustion ..	3
Fire 2215*	Building Construction	3
Fire 2218*	Principles of Fire and Emergency Services Safety and Survival	3

Program Electives15

Select 15 credits from any 1000 or 2000-level Fire Science courses.

Fire 1101*	Basic Operations Firefighter-Mod A.....	6
Fire 1102*	Basic Operations Firefighter-B	6
Fire 1103*	Basic Operations Firefighter-C	6
Fire 1104*	Advanced Technician Firefighter	4
Fire 1111*	Fire Prevention I	3
Fire 1120	Codes and Laws	3
Fire 2211*	Fire Apparatus Engineer	3
Fire 2221*	Tactics I.....	3
Fire 2222*	Tactics II.....	3
Fire 2231*	Hazardous Materials Operations.....	3
Fire 2234*	Hazardous Materials Technician	6
Fire 2250*	Incident Safety Officer	3
Fire 2251*	Fire Leadership I	3
Fire 2252*	Fire Leadership II	3
Fire 2253*	Fire Leadership III	3
Fire 2254*	Fire Leadership IV	3
Fire 2255	Fire Service Instructor I	3
Fire 2256*	Fire Service Instructor II	3
Fire 2257*	Company Fire Officer Phase I	3
Fire 2258*	Company Fire Officer Phase II	5
Fire 2260*	Fire Investigation	3
Fire 2261*	Fire/Arson Investigation I.....	3
Fire 2262*	Fire/Arson Investigation II.....	3
Fire 2263*	Fire/Arson Investigation III.....	3
Fire 2264*	Advanced Fire Officer Phase I	3
Fire 2265*	Advanced Fire Officer Phase II	3
Fire 2267*	Fire Service Vehicle Operator.....	1
Fire 2271*	Emergency Medical Technician.....	10
Fire 2272*	Paramedic Transition	3

Suggested Course Sequence (Full-Time Enrollment)

Please note: A student's readiness to perform college-level coursework is based on the student's placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.

Fall Semester (16 credits)

- Fire 1100 (3)
- Fire 2271 (10)
- Engli 1101 or 1105 (3)

Spring Semester (13 credits)

- Fire 2272 (3)
- Fire 2285 or 2286 (3)
- Fire 2286 or 2287 (3)
- Anat 1500 (4)

Summer Term (6 credits)

- Hlths 1110 (3)
- Spec 1100 or 1120 or 1150 (3)

Fall Semester (15 to 17 credits)

- Fire 1112 (3)
- Fire 2201 (3)
- Fire 2213 (3)
- Fire 2215 (3)
- Mathematics (3 to 5)

Spring Semester (14 credits)

- Fire 2210 (3)
- Fire 2218 (3)
- Humanities & Fine Arts (3)
- Social & Behavioral Sciences (3)
- Elective (2)

For more information:

If you are considering this program as an area of study, please contact the **Fire Science** office at 630-942-2107.

Program web site:



FIRE.AAS

Fire	2273*	Vehicle and Machinery Operations	3
Fire	2282*	EMT Instructor Training.....	3
Fire	2283	Emergency Medical Responder.....	5
Fire	2285*	Trauma Assessment	3
Fire	2286*	Pediatric Education for Prehospital Professionals	3
Fire	2287*	Differential Medical Assessment.....	3

* - course has a prerequisite

Electives 10

Select from any 1000- or 2000-level courses. (In addition to the courses listed below.)

General Education 18 to 22

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. (In addition to the courses listed below.)

Under the specified General Education headings below, the following courses are required:

Communication: 6 credits

Written: (3 credits) English 1101 or 1105

Oral: (3 credits) Speech 1100, 1120 or 1150

Physical and Life Sciences: 3 to 5 credits

At least one course with a laboratory component

Mathematics: 3 to 5 credits

Select a minimum of 3 credits (1000 level or above).

Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

Humanities and Fine Arts: 3 credits

Social and Behavioral Sciences: 3 credits

Global/Multicultural Studies or Contemporary Life Skills: From the general education or elective classes, at least 2 credits must fall in one of these categories.

<p>TOTAL CREDITS FOR AAS DEGREE 64 to 68</p>
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Career Information FIRE.AAS

Job Title(s): Emergency Medical Technicians
Emergency Medical Technician (EMT)

For salary and wage information, please visit: www.onetonline.org

If you would like information regarding internships, resume development, interviewing and job search skills, please contact the Career Services Center

Phone: 630-942-2230

www.cod.edu/careerservices

Twitter: @codcareercenter

Related Occupations:

Respiratory Therapists

Municipal Firefighters

Sheriffs and Deputy Sheriffs

Occupational Health and Safety Technicians

Registered Nurses

Fire Inspectors

Police Patrol Officers

Licensed Practical and Licensed Vocational
Nurses

Fire Science | Associate in Applied Science

Field of Study Code: FIRE.AAS.EMS

Catalog Description:

The Emergency Medical Services degree includes theory and techniques of firefighting, inclusive of the Emergency Medical Technician curriculum, required by most fire departments. The program focuses on emergency medical services and the administration of those services in any setting. After completion of the degree and all of the objectives of the Illinois Department of Public Health are passed, the student is allowed to take the State of Illinois Paramedic Licensing exam.

Program Requirements49

Anat 1500*	Survey of Human Anatomy and Physiology ...4
Engli 1101*	English Composition I3
Hlths 1110	Biomedical Terminology.....3
Spec 1100*	Fundamentals of Speech Communication.....3
Fire 2278*	Paramedic I.....12
Fire 2279*	Paramedic II.....12
Fire 2280*	Paramedic III.....12

* - course has a prerequisite

Program Electives6

Fire 2272	Paramedic Transition3
Fire 2285	Trauma Assessment3
Fire 2286	Pediatric Education for Prehospital Professionals3
Fire 2287	Differential Medical Assessment.....3

General Education9 to 11

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. (In addition to the courses listed above.)

For the **Emergency Medical Services degree**, some General Education courses are already listed under program requirements. Therefore, students need a minimum of 6 credits besides those listed under program requirements.

Under the specified General Education headings below, the following courses are required:

Communication: 6 credits

Written: (3 credits) English 1101 or 1105

(English 1101 in program requirements fulfills this requirement)

Oral: (3 credits) Speech 1100, 1120 or 1150

(Speech 1100 in program requirements fulfills this requirement)

Physical and Life Sciences: 3 to 5 credits

At least one course with a laboratory component

(Anatomy & Physiology 1500 in program requirements fulfills this requirement)

Suggested Course Sequence (Full-Time Enrollment)

Please note: A student's readiness to perform college-level coursework is based on the student's placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.

*Course Offering may change semester to semester. General Education courses are already listed under program requirements. Therefore, students only need a minimum of 6 credits besides those listed.

Pre-Admission Courses

Student must have completed Fire 2271 to enroll in Fire 2272, 2285, 2286, and 2287. Student must be accepted by an affiliated Paramedic Program to enroll in Fire 2278, 2279, and 2280. General Education Requirements and Program Requirements may be completed prior to Paramedic Training. All Paramedic Training Courses through College of DuPage and its affiliates begin in Spring or Fall semester. All Paramedic Programs are one calendar year long, including summer semester, for 36 total credits over three semesters. Contact Fire/EMS Division manager for clarification and guidance.

Professional Course Sequence

First Semester (13 credits)

- Fire 2272, 2285, 2286, or 2287 (3)
- Fire 2272, 2285, 2286, or 2287 (3)
- Engli 1101 or 1105 (3)
- Anat 1500 (4)

Second Semester (15-17 credits)

- Spec 1100 (3)
- Mathematics (3 to 5)
- Hlths 1110 (3)
- Social & Behavioral Sciences (3)
- Humanities (3)

Spring or Fall Semester (12 credits)

- Fire 2278 (12)

Summer or Spring Semester (12 credits)

- Fire 2279 (12)

Fall or Summer Semester (12 credits)

- Fire 2280 (12)

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Mathematics: 3 to 5 credits

Select a minimum of 3 credits (1000 level or above).

Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

Humanities and Fine Arts: 3 credits

Social and Behavioral Sciences: 3 credits

Global/Multicultural Studies or Contemporary Life Skills: From the general education or elective classes, at least 2 credits must fall in one of these categories.

TOTAL CREDITS FOR AAS DEGREE

64 to 66

For more information:

If you are considering this program as an area of study, please contact the **Fire Science** office at 630-942-2107.

Program web site:

<http://www.cod.edu/academics/programs/fire>

Career Information FIRE .AAS.EMS

Job Title(s): Emergency Medical Technician and Paramedic

Emergency Medical Technician (EMT); Emergency Medical Technician, Basic (EMT, B); EMT Intermediate (Emergency Medical Technician, Intermediate); EMT, Paramedic (Emergency Medical Technician, Paramedic); EMT/Dispatcher (Emergency Medical Technician/Dispatcher); Emergency Medical Technician/Driver (EMT/DRIVER); First Responder; Flight Paramedic; Multi Care Technician (Multi Care Tech); Paramedic

For salary and wage information, please visit: www.onetonline.org

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