

## FIRE SCIENCE

### Associate in Applied Science A.A.S.: Fire Science Technology Degree

This 60 credit-hour program in fire science technology is designed to allow students to master fundamental principles in fire and emergency services, fire prevention principles, fire behavior, firefighting strategy and tactics, fire investigation, hazardous materials, as well as the basics of urban, rural, and wild-land firefighting. Many of the courses offered have course approval with the Office of the Illinois State Fire Marshal. The program also provides current firefighters with the education needed to broaden their career paths. This degree program is recognized through Fire and Emergency Services Higher Education (FESHE), a network of the U.S. Fire Administration's National Fire Academy. Many fire departments now require an AAS degree in Fire Science Technology before the student is eligible for entry-level positions while other fire departments offer promotional and salary incentives to graduate.

F = Fall only course S = Spring only course U = Summer only course

#### FIRST SEMESTER:

| Number  | Course Title                                      | Credits | Course Category       |
|---------|---|---------|-----------------------|
| ENG 101 | Composition .....                                 | 3       | AAS General Education |
| FIS 100 | Fundamentals of Fire and Emergency Services ..... | 3       | Program Requirement   |
| FIS 121 | Fire Behavior and Combustion .....                | 3       | Program Requirement   |
| FIS 122 | Fire Prevention Principles .....                  | 3       | Program Requirement   |
| MGT 150 | Business Math <sup>1</sup> .....                  | 3       | AAS General Education |

#### SECOND SEMESTER:

| Number  | Course Title                                    | Credits | Course Category       |
|---------|---|---------|-----------------------|
| FIS 103 | Firefighting Strategies and Tactics .....       | 3       | Program Requirement   |
| FIS 104 | Building Construction for Fire Protection ..... | 3       | Program Requirement   |
| FIS 132 | Hazardous Materials .....                       | 3       | Program Requirement   |
| PSY 101 | Introduction to Psychology .....                | 3       | AAS General Education |
| SPE 101 | Fundamentals of Speech Communication .....      | 3       | AAS General Education |

#### THIRD SEMESTER:

| Number  | Course Title                                 | Credits | Course Category       |
|---------|--|---------|-----------------------|
| BIO 160 | Human Anatomy or                             |         |                       |
| NTR 101 | Fundamentals of Nutrition .....              | 3       | AAS General Education |
| FIS 102 | Fire Service Management/Leadership (F) ..... | 3       | Program Requirement   |
| FIS 145 | Fire and Emergency Services Instructor ..... | 3       | Program Requirement   |
| FIS 260 | Emergency Services Safety .....              | 3       | Program Requirement   |
| FIS 280 | Firefighting Around the World* .....         | 3       | Program Requirement   |

#### FOURTH SEMESTER:

| Number  | Course Title                                    | Credits | Course Category     |
|---------|---|---------|---------------------|
| FIS 106 | Fire Service Career Exploration Practicum ..... | 1       | Program Requirement |
|         | FIS electives <sup>2</sup> .....                | 14      | Program Requirement |

<sup>1</sup> MGT 150, MTH 080, or MTH 101 or higher is acceptable.

+ This course meets the World Culture and Diversity graduation requirement.

<sup>2</sup> Choose at least 14 credit hours from the following courses: EMG 101, EMG 103 (S), EMG 107 (S), EMG 253 (F); FIS 109, FIS 200, FIS 210, FIS 212(F), FIS 230(F), FIS 240(U), FIS 250(S), FIS 270(S).