

ASSOCIATE OF APPLIED SCIENCE IN FIRE SCIENCE

Description and Outcomes

Purdue Global is recognized by the U.S. Fire Administration as an official Fire and Emergency Services Higher Education (FESHE) institution. The Associate of Applied Science in Fire Science closely follows the FESHE model and is designed to provide you with foundational skills in firefighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics. In addition, the program explores technical, legal, and social aspects of arson, the application of technology to firefighting, and the psychological effects of fire dynamics. The program serves fire service professionals seeking enhanced skills and a broad spectrum of knowledge in the field of fire science. The curriculum includes analytical approaches to fire protection and investigation, disaster and fire defense planning, hazardous materials management, and the role of the fire service within the community.

Program Length

The Associate of Applied Science in Fire Science program consists of a minimum of 90 quarter credit hours. Upon successful completion of the program, you will be awarded an associate of applied science degree.

Program Outcomes

Discipline-Specific Outcomes

1. Foundational Firefighter Skills: Discuss the importance of building construction as it relates to firefighter safety, building codes, and fire prevention.
2. Knowledge Base: Describe the difference between fire resistance and flame spread and the testing procedures used to establish ratings for each.
3. Psychology: Discuss the issues that deal with the psychological effects of fire dynamics.
4. Research Methods: Apply scientific methods of inquiry to arrive at reasoned decisions regarding fire science.
5. Technology: Discuss the use of computer technology to inform and enhance firefighting strategy and tactics.

General Education Literacies and Professional Competencies

In addition to the discipline-specific outcomes, general education literacies and professional competencies are integrated throughout your academic program. You can review the general education literacies and professional competencies associated with your academic program in the General Education and Professional Competency Requirements (<https://catalog.purdueglobal.edu/undergraduate/general-education-professional-competency-requirements/>) section of this Catalog.

Program Availability

For program availability, please refer to the U.S. State and Other Approvals (<https://catalog.purdueglobal.edu/policy-information/university-information/accreditation-approvals-memberships/>) section and Program Availability Information (<https://www.purdueglobal.edu/catalog-program-availability-info.pdf>).

Policies

Please refer to school-specific policies (<https://catalog.purdueglobal.edu/undergraduate/social-behavioral-sciences/>) and the Policy Information (<https://catalog.purdueglobal.edu/undergraduate/policy-information/>) section for general Purdue Global policies.


Certification, State Board, and National Board Exams

Certification and licensure boards have state-specific educational requirements for programs that lead to a license or certification that is a precondition for employment. Prospective and current students must review Purdue Global's State Licensure and Certifications (<https://www.purdueglobal.edu/about/accreditation/licensure-state-authorizations/>) site to view program and state-specific licensure information.



Licensure-track programs may limit enrollment to students in certain states; please see Purdue Global's Program Availability Information (<https://www.purdueglobal.edu/catalog-program-availability-info.pdf>) to determine enrollment eligibility.

You are responsible for understanding the requirements of optional certification exams. Such requirements may change during the course of your program. You are not automatically certified in any way upon program completion. Although certain programs are designed to prepare you to take various optional certification exams, Purdue Global cannot guarantee you will be eligible to take these exams or become certified. Your eligibility may depend on your work experience, completion of education and/or degree requirements, not having a criminal record, and meeting other certification requirements.

Degree Plan

The  icon appears in the title of traditional courses that are also available as a set of module courses. Module course availability may be limited to certain academic calendars. See Course Types (<https://catalog.purdueglobal.edu/policy-information/university-information/approach-to-learning/>) for information about module courses.

Program Requirements

| Code | Title | Credits |
|---------------------------|---|---------|
| Core Requirements | | |
| CM107 |  College Composition I | 5 |
| CM220 |  College Composition II | 5 |
| 100/200 Level | Mathematics Requirement ¹ | 5 |
| Total Core Requirements | | 15 |
| Major Requirements | | |
| FS100 | Introduction to Fire and Emergency Services | 5 |
| FS101 | Fire Behavior and Combustion | 5 |
| FS102 | Building Construction for Fire Protection | 5 |
| FS103 | Fire Protection Hydraulics and Water Supply | 5 |
| FS104 | Fire Protection Systems | 5 |
| FS105 | Fire Prevention Practices | 5 |
| FS201 | Strategy and Tactics | 5 |
| FS202 | Principles of Emergency Services | 5 |

| | | |
|-----------------------------------|--|-----------|
| FS204 | Occupational Safety and Health for Emergency Services | 5 |
| FS208 | Legal Aspects of Emergency Services | 5 |
| SS270 | Social Problems | 5 |
| FS299 | Associate's Capstone in Fire Science | 5 |
| Total Major Requirements | | 60 |
| Open Elective Requirements | | |
| Open Electives | | 15 |
| Total Open Elective Requirements | | 15 |
| TOTAL CREDITS | | 90 |

¹ For options to fulfill this requirement, see the corresponding literacy in General Education and Professional Competency Requirements (<https://catalog.purdueglobal.edu/undergraduate/general-education-professional-competency-requirements/>).