BACHELOR OF 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 Bachelor of 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, fire protection structure and system design, and the role of the fire service within the community.

If you have already completed an associate's or bachelor's degree from an accredited institution, you may be eligible for degree requirements to be waived and replaced with advanced start credit. Refer to Advanced Start Credit in Bachelor's Degrees (https://catalog.purdueglobal.edu/policy-information/prior-learning/advanced-start-credit-bachelors-degrees/) for details.

Concentration

You can personalize your degree with a concentration in business foundations. The business foundations concentration will allow you to gain competencies in the fundamental concepts of business administration. You will develop an understanding of the four functions of management, the components of a marketing strategy, and the financial performance of an organization.

Accelerated Master’s Degree Options

If you are interested in earning a master's degree, consider an accelerated master's degree option. Refer to the Progression Requirements (https://catalog.purdueglobal.edu/undergraduate/social-behavioral-sciences/) section for details.

Program Length

The Bachelor of Science in Fire Science program consists of a minimum of 180 quarter credit hours. Upon successful completion of the program, graduates will be awarded a bachelor of science degree.

Program Outcomes

Discipline-Specific Outcomes

1. Fire Foundations: Demonstrate an understanding of building construction as it relates to firefighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics.
3. Psychology: Analyze 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: Analyze methods that integrate the use of technology to inform operational and strategic decisions that will 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


Certification, State Board, and National Board Exams

Certain state certification and licensure boards have specific educational requirements for programs to lead to a license or certification that is a precondition for employment in a recognized occupation. 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.

Unless otherwise specified, Purdue Global's programs are not designed to meet any specific state's licensure or certification requirements. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CM107</td>
<td>College Composition I</td>
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<td>CM220</td>
<td>College Composition II</td>
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<tr>
<td>CS212</td>
<td>Communicating Professionalism</td>
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<td>SS270</td>
<td>Social Problems</td>
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<td>Mathematics Requirement</td>
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<tr>
<td>100/200 Level</td>
<td>Arts and Humanities Requirement</td>
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<td>100/200 Level</td>
<td>Science Requirement 1</td>
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<td>100/200 Level</td>
<td>Social Science Requirement 1</td>
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<td>100/200 Level</td>
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**Major Requirements**

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<tr>
<td>FS100</td>
<td>Introduction to Fire and Emergency Services 2</td>
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<tr>
<td>FS101</td>
<td>Fire Behavior and Combustion</td>
<td>5</td>
</tr>
<tr>
<td>FS102</td>
<td>Building Construction for Fire Protection 2</td>
<td>5</td>
</tr>
<tr>
<td>FS103</td>
<td>Fire Protection Hydraulics and Water Supply 2</td>
<td>5</td>
</tr>
<tr>
<td>FS104</td>
<td>Fire Protection Systems 2</td>
<td>5</td>
</tr>
<tr>
<td>FS105</td>
<td>Fire Prevention Practices</td>
<td>5</td>
</tr>
<tr>
<td>FS201</td>
<td>Strategy and Tactics</td>
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<tr>
<td>FS202</td>
<td>Principles of Emergency Services 2</td>
<td>5</td>
</tr>
<tr>
<td>FS204</td>
<td>Occupational Safety and Health for Emergency Services 2</td>
<td>5</td>
</tr>
<tr>
<td>FS208</td>
<td>Legal Aspects of Emergency Services 2</td>
<td>5</td>
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<tr>
<td>FS301</td>
<td>Fire Investigation and Analysis</td>
<td>6</td>
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<tr>
<td>FS302</td>
<td>Advanced Principles of Firefighter Safety and Survival</td>
<td>6</td>
</tr>
<tr>
<td>FS304</td>
<td>Community Risk Reduction for Fire and EMS</td>
<td>6</td>
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<tr>
<td>FS401</td>
<td>Fire Prevention Organization and Management</td>
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<tr>
<td>FS402</td>
<td>Political, Ethical, and Legal Foundations of Emergency Services</td>
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<tr>
<td>FS403</td>
<td>Leadership and Management</td>
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<td>FS412</td>
<td>Safety Risk Management for Fire and EMS</td>
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<td>FS413</td>
<td>Research Analysis for Fire Emergency Services</td>
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<td>FS414</td>
<td>Personnel Management for Fire and EMS</td>
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<td>FS498</td>
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**Open Elective Requirements**

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<tr>
<td>AC112</td>
<td>Accounting Fundamentals for Management</td>
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<tr>
<td>MT140</td>
<td>Introduction to Management</td>
<td>5</td>
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<tr>
<td>MT203</td>
<td>Human Resource Management</td>
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</table>

**TOTAL CREDITS** 180

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2 These degree requirements can be waived for students who are eligible for advanced start credit with a prior degree. See Advanced Start Credit in Bachelor's Degrees (https://catalog.purdueglobal.edu/policy-information/prior-learning/advanced-start-credit-bachelors-degrees/) for details.

3 Eligible students who choose to complete an accelerated master's degree option will take four graduate-level courses in addition to selected undergraduate electives.

## Concentration Requirements

Concentration courses are completed within the open electives requirement of the degree plan.

Students in this program are not required to select a concentration.

### Business Foundations

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>AC112</td>
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<tr>
<td>MT203</td>
<td>Human Resource Management</td>
<td>5</td>
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<tr>
<td>MT219</td>
<td>Marketing</td>
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<tr>
<td>TOTAL CREDITS</td>
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</tbody>
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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/).