

# Undergraduate Bulletin

## Fire Science

### 2013-2014

## Fire Science

### Bachelor of Science

The Fire Science major prepares students for a fire service or fire protection career by providing an overall understanding of the scope, content and literature of fire science, and developing key skills necessary for effecting fire safety in the public and private sectors. Public sector career opportunities include working directly in federal, state and local fire organizations. Private sector career opportunities include working with architects in building code consulting, fire protection systems design (such as design of sprinkler and alarm systems), and other related areas.

**Credits required.** 42

**Coordinator.** Professor Glenn Corbett, Department of Security, Fire and Emergency Management (212.237.8092, gcorbett@jjay.cuny.edu).

**Prerequisites.** MAT 241 is the prerequisite for PHY 203. MAT 242 is a prerequisite or co-requisite for PHY 203. These courses will fulfill the Required Core: Mathematics and Quantitative Reasoning area of the College's general education requirements.

The prerequisite for CHE 103 is placement into MAT 141 or higher; or placement into MAT 105 and a score of 80% or higher in the New York State Chemistry Regents. Placement is determined by the CUNY Assessment Test in Mathematics. Students who did not take the New York State Chemistry Regents will need the permission of the Department of Sciences.

**Additional information.** This major requires completion of CHE 103 or CHE 101 and CHE 102, and one semester of physics. These courses fulfill the College's general education requirements in Life and Physical Sciences and the Scientific World.

Students who enrolled at the College for the first time or changed to this major in September 2011 or thereafter must complete the major in the form presented here. Students who enrolled prior to that date may choose the form shown here or the earlier version of the major. A copy of the earlier version may be obtained at the Office of Undergraduate Studies or at the Lloyd George Sealy Library.

## COURSES

### PART ONE. SCIENCE REQUIREMENTS

**CREDITS: 9**

#### Required

CHE 101-102 General Chemistry I-A and I-B **or** CHE 103 General Chemistry I

PHY 101 College Physics I **or** PHY 203 General Physics I

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**PART TWO. CORE REQUIREMENTS****CREDITS: 21****Required**

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FIS 101 Introduction to Fire Science

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FIS 210 Fire Safety Administration

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FIS 230 Building Construction and Life Safety Systems I

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FIS 257 Fire Dynamics

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FIS 2XX Science Foundations of Emergency Management and Response

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FIS 330 Building Construction and Life Safety Systems II

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FIS 401 Seminar in Fire Protection Problems

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**PART THREE. ELECTIVES****CREDITS: 12****Select four**

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FIS 106 Safety Engineering

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FIS 202 Fire Protection Systems

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FIS 205 Fire Service Hydraulics

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FIS 207 Water-Based Fire Suppression Systems

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FIS 220/MAT 220/PSC 220 Survey of the Concepts of Operations Research

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FIS 303 Fire Investigation

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**CREDITS REQUIRED FOR THE MAJOR: 42**