

Undergraduate Bulletin

Fire Science

2012-2013

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

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 mathematics general education requirements.

MAT 242 and PHY 203 are prerequisites for PHY 204.

The prerequisite for CHE 103 is placement into MAT 141 or higher; or placement into MAT 104 or 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.

Coordinator. Professor Robert Till, Department of Security, Fire and Emergency Management (212.484.1379, rtill@jjay.cuny.edu)

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 science.

Students who enrolled at the College or changed to this major for the first time 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.

Credits

PART ONE. SCIENCE REQUIREMENTS

Subtotal: 9

Required

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

In addition, one of the following physics courses

PHY 101 College Physics I or
PHY 203 General Physics I

PART TWO. CORE REQUIREMENTS

Subtotal: 21

Required

FIS 101 Introduction to Fire Science
FIS 210 Fire Safety Administration
FIS 230 Building Construction and Life Safety Systems I
FIS 257 Fire Dynamics
FIS 330 Building Construction and Life Safety Systems II
FIS 401 Seminar in Fire Protection Problems
FIS 2XX Science Foundations of Emergency Management and Response

PART THREE. ELECTIVES

Subtotal: 12

Select four

FIS 106 Safety Engineering
FIS 202 Fire Protection Systems
FIS 205 Fire Service Hydraulics
FIS 207 Water-Based Fire Suppression Systems
FIS 220/MAT 220/PSC 220 Survey of the Concepts of Operations Research
FIS 303 Fire Investigation

Total: 42