FIRE SCIENCE (BS):
http://www.jjay.cuny.edu/academics/639.php

"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."

Skills, Abilities and Objectives for Fire Science Majors:
- Demonstrate knowledge and skills required to respond appropriately to fire and environmental emergency
- Illustrate the history of the fire service
- Describe the components and development of the fire and emergency service
- Recognize careers in fire and emergency services
- Identify various classifications of building construction
- Understand theoretical concepts of how fire impacts major types of building construction
- Identify laws, codes, ordinances, and regulations as they relate to fire prevention
- Understand code enforcement as it impacts life and property loss
- Identify fundamental theories of fire behavior and combustion
- Differentiate the various types of extinguishment agents
- Identify and describe various types and uses of fire protection systems
- Describe the basic elements of a public water supply system as it relates to fire protection
- Understand concepts of risk and management and mitigation as it pertains to emergency services

Transferring Skills to Careers:
The skills above prepare Fire Science majors for a range of professional degrees and career options. The list below does not include all possible professional paths to students who major in Fire Science but gives a sample of careers graduates have chosen to pursue. The theoretical and assessment skills developed by Fire Science majors are applicable to positions such as:

- Police, Fire and Ambulance Dispatcher
- Emergency Management Director
- Emergency Medical Technicians and Paramedic
- Municipal Firefighter
- Municipal Firefighting and Prevention Supervisor
- Fire Inspector
- Forest Fire Fighting and Prevention Supervisor
- Fire Investigator
- Fire Prevention and Protection Engineer
- Security and Fire Alarm Systems Installer
- Emergency Communication Center Manager
- Engineer
- Construction Worker/Site Managers
- Arson Investigator

Strategies for Professional Development:
- Look for internship/volunteer experiences with various fire and emergency response organizations such as FEMA and the American Red Cross.

- Develop and emphasize your transferable skills such as:
  - Communication
  - Leadership/Teamwork
  - Policy Analysis
  - Strategic Thinking

- Conduct informational interviews with professionals in fire and emergency services field

- Get involved in student organizations and volunteer opportunities that allow you to develop your teamwork and leadership skills.

- Create a LinkedIn account to connect with individuals and organizations in your field of interests.

- Consider pursuing a master's degree in a related career field.

Professional Associations/Organizations:
A professional association is an organization formed to promote and support the development, growth and work efforts of individuals in a particular career field. Membership benefits include networking, continuing education, mentoring programs, meetings/conferences and exclusive access to information regarding career opportunities.

There is often a fee for joining professional organizations; however, most associations offer discounts to students, including graduate school students, recent graduates, and young professionals. All or a portion of associations fees are tax deductible. To learn more about professional associations, see *The National Trade and Professional Associations Directory*, the *American Society of Association Executives* or *Encyclopedia of Associations: Volume I - National Organizations of the U.S.* is available in the Reference section of John Jay College’s Lloyd Sealy Library.

- **International Association for Fire Safety Science**
  [http://www.iafss.org](http://www.iafss.org)

**Additional Resources:**

- **Fire & Aviation Management**

- **Journal of Fire Sciences**
  [http://jfs.sagepub.com](http://jfs.sagepub.com)

- **John Jay College Fire Science Institute**
  [http://www.jjay.cuny.edu/centers/fire_science_institute/index.php](http://www.jjay.cuny.edu/centers/fire_science_institute/index.php)

- **Journal of Applied Fire Science**

- **American Association for the Advancement of Science**
  [http://sciencecareers.sciencemag.org](http://sciencecareers.sciencemag.org)

- **Environmental Career Opportunities**

For more information on this major please visit:

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