

# Associate in Science Fire Science Administration

CIP Code 43.0202

## FRA.AS

| <b>FIRST YEAR/FIRST SEMESTER</b>   |  |           |  |
|------------------------------------|--|-----------|--|
| Course #                           | Course Name  | Credits   | Notes  |
| ENG 101                            | English Composition I  | 3         | Must test into ENG-101 or complete all appropriate prerequisites.  |
| FIR-101                            | Fundamentals of Fire Behavior/Protection   | 3         | Certification as a Firefighter I by NJ Div. of Fire Safety is accepted as an equivalent. National Board on Fire Service Professional Qualifications Firefighter I certification may be accepted as equivalent based upon an evaluation of course hours.                                  |
| FIR-102                            | Fundamentals of Fire Prevention/Fire Inspection I                                  | 3         | Certification as a Fire Inspector by the New Jersey Div. of Fire Safety is accepted as an equivalent. National Board on Fire Service professional Qualifications Fire Inspector I certification may be accepted as equivalent based upon an evaluation of hours.                         |
| ELECTIVE                           | Technology General Education Elective  | 2         |  |
| CHM-120                            | Chemistry for Fire Protection  | 4         |  |
| <b>FIRST YEAR/SECOND SEMESTER</b>  |  |           |  |
| ENG 102                            | English Composition II   | 3         | <b>Prerequisite:</b> ENG 101   |
| MTH...                             | Mathematics General Education Elective   | 3         | Must test into College level Math or take all appropriate prerequisites  |
| FIR-125                            | Firefighter Safety and Survival  | 3         |  |
| FIR-202                            | Fire Investigation   | 3         | <b>Prerequisite:</b> FIR-102; The National Fire Academy (NFA), New Jersey Division of Criminal Justice (NJDCJ), or International Association of Arson Investigators (IAAI) Fire Investigation classes may be accepted based upon evaluation of hours.                                    |
| FIR-222                            | Fire Inspector II  | 3         | <b>Prerequisite:</b> FIR-102; Certification as a Fire Inspector by the NJ Div. of Fire Safety is accepted as an equivalent. National Board on Fire Service Professional Qualifications Fire Inspector II Certification may be accepted as equivalent based upon and evaluation of hours. |
| <b>SECOND YEAR/FIRST SEMESTER</b>  |  |           |  |
| FIR-201                            | Fire Protection Systems  | 3         | <b>Prerequisite:</b> FIR-101   |
| FIR-211                            | Building Construction for Fire Service   | 3         | <b>Prerequisite:</b> FIR-101   |
| FIR-225                            | Hydraulics   | 3         | <b>Prerequisite:</b> FIR-101   |
| SOC-101                            | Introduction to Sociology  | 3         |  |
| MTH-111                            | Introduction to Statistics   | 3         | Must test into College Level Math or complete all appropriate prerequisites  |
| <b>SECOND YEAR/SECOND SEMESTER</b> |  |           |  |
| FIR-252<br>or FIR-212              | Arson Law and Court Procedures<br>Fire Official                                    | 3         | <b>FIR-252 Prerequisite:</b> FIR-202<br><b>FIR-212 Prerequisite:</b> FIR-222; Certification as a Fire Official by NJ Div. of Fire Safety is accepted as an equivalent.   |
| FIR-231<br>or FIR-235              | Organization and Management of Fire Depts.<br>New Jersey Fire Officer I            | 3         | <b>FIR-231 Prerequisite:</b> FIR-101 or FIR-102<br><b>FIR-235 Prerequisite:</b> FIR-101; The National Board on Fire Service Professional Qualifications (NBFSPQ or Pro-Board) Fire Officer I certification may be accepted as equivalent based upon an evaluation of hours.              |
| POL-103                            | American Federal Government  | 3         |  |
| PHL-131                            | Introduction to Ethics   | 3         |  |
| ELECTIVE<br>or ELECTIVE            | Humanities General Education Elective<br>Social Science General Education Elective | 3         |  |
| <b>TOTAL CREDITS</b>               |  | <b>60</b> |  |

### PROGRAM DESCRIPTION

The Fire Science Administration option is intended for those who seek to transfer to a four year institution for the purpose of earning a Bachelor of Science in Fire Science. The program adheres to the core requirements of the Dept. of Homeland Security guidelines for fire science in the Fire and Emergency Service Higher Education (FESHE) model curriculum. Students completing this program may also earn certifications in Fire Code Enforcement. Students transferring to a four year school offering a bachelor of Fire Science will be entering the third year program and will have the ability to complete the degree on a four year plan.

### PROGRAM STUDENT LEARNING OUTCOMES

At the end of the program, the graduate will be able to:

1. Explain the method by which fire and building codes enhance fire prevention and overall safety to building occupants.
2. Discuss how organization structure in a fire department is used to deliver effective services for prevention, suppression and emergency operations.
3. Understand the key benefits for investigating fire losses and how that applies to legal requirements under state law.
4. Demonstrate knowledge of hazard and risk exposure caused by fire and the methods used by management for effectively controlling this exposure to avoid or minimize unnecessary safety and health risks.

### CONTACT PERSON

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