

# FIRE SCIENCE, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #2072

Effective May 2018

Division of Health and Wellness Sciences (<http://catalog.lorainccc.edu/academic-programs/allied-health-nursing-health-physical-education-recreation>)

The fire science program offers career opportunities in forestry, insurance, state, county and local government and in the fire service. (For fire department employment, Civil Service requirements apply.) Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

Students who are currently certified as a firefighter by the State of Ohio are advised to take the following sequence:

Code	Title	Hours
FIRE 111	INTRODUCTION TO FIRE SERVICE	3
FIRE 127	FIREFIGHTER ORIENTATION	1
FIRE 132	FIREFIGHTING LEVEL II	2
FIRE 134	FIRE PROTECTION HYDRAULICS AND WATER SUPPLY	2
FIRE 218	HAZARDOUS MATERIALS OPERATIONS	1

Students who are not certified firefighters in the State of Ohio are advised to take the following sequence:

Code	Title	Hours
FIRE 111	INTRODUCTION TO FIRE SERVICE	3
FIRE 134	FIRE PROTECTION HYDRAULICS AND WATER SUPPLY	2
FIRE 218	HAZARDOUS MATERIALS OPERATIONS	1
FIRE 299	INDIVIDUALIZED STUDIES IN FIRE	1-2

Prior learning credit will be applied to the following courses if student provides current certification documentation:

Course	Title	Required Certification
FIRE 111	INTRODUCTION TO FIRE SERVICE	FIREFIGHTER II
FIRE 120	FIRE INVESTIGATION I	FIRE INVESTIGATOR
FIRE 127	FIREFIGHTER ORIENTATION	FIREFIGHTER VOLUNTEER I OR II
FIRE 132	FIREFIGHTING LEVEL II	FIREFIGHTER II
FIRE 134	HYDRAULICS AND WATER SUPPLY	FIREFIGHTER II
FIRE 218	HAZARDOUS MATERIALS OPERATIONS	HAZMAT (OPERATIONS LEVEL) AND (FIREFIGHTER I OR II)

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
FIRE 111	INTRODUCTION TO FIRE SERVICE	3
FIRE 125	FIRE BEHAVIOR AND COMBUSTION	2
ENGL 161	COLLEGE COMPOSITION I	3
MTHM 168	STATISTICS <sup>1</sup>	3
PSSC 153	PHYSICAL SCIENCE	4
SDEV 101	COLLEGE 101 <sup>2</sup>	1
Hours		16

<b>Spring Semester</b>		
CISS 121	MICROCOMPUTER APPLICATIONS I	3
FIRE 112	BUILDING DESIGN AND CONSTRUCTION	3
Select one of the following:		1-3
FIRE 127 & FIRE 132	FIREFIGHTER ORIENTATION and FIREFIGHTING LEVEL II <sup>1</sup>	
FIRE 299	INDIVIDUALIZED STUDIES IN FIRE <sup>1</sup>	
FIRE 134	FIRE PROTECTION HYDRAULICS AND WATER SUPPLY	2
PEWL 151	STRESS MANAGEMENT	1
PSYH 151 or SOCY 151G	INTRODUCTION TO PSYCHOLOGY or INTRODUCTION TO SOCIOLOGY	3
Hours		13-15

<b>Second Year</b>		
<b>Fall Semester</b>		
CMMC 151	ORAL COMMUNICATION	3
FIRE 130	EMERGENCY SERVICES SAFETY AND SURVIVAL	2
FIRE 136	STRATEGY AND TACTICS <sup>1</sup>	3
FIRE 210	HAZARDOUS MATERIALS CHEMISTRY	2
FIRE 229	FIRE PROTECTION SYSTEMS	2
PLSC 155	STATE AND LOCAL GOVERNMENT	3
Humanities Elective		3
Hours		18

<b>Spring Semester</b>		
FIRE 120	FIRE INVESTIGATION I <sup>1</sup>	3
FIRE 218	HAZARDOUS MATERIALS OPERATIONS	1
FIRE 224	LEGAL CONCEPTS FOR EMERGENCY SRVCS	3
FIRE 227	FIRE PREVENTION	3
FIRE 228 or PBAD 151	FIRE AND EMERGENCY SERVICE ADMINISTRATION <sup>1</sup> or INTRODUCTION TO PUBLIC ADMIN	2-3
FIRE 240	EMERGENCY SERVICES OCCUPATIONAL HEALTH AND SAFETY	2
Hours		14-15
Total Hours		61-64

<sup>1</sup> Indicates that this course has a prerequisite.

<sup>2</sup> A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 13 or more credit hours.

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your Advising Team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling>). (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling>)

**More program information can be found on our website.** (<https://www.lorainccc.edu/human-social-services/public-safety/associate-of-applied-science-in-fire-science/fire-science>)

## **Fire Science Program**

The successful completion of the following program leads to the conferral of the associate of applied science degree. See the curriculum guide (p. 1) for individual program requirements. Fire science is available through the Health and Wellness Sciences division. In all associate of applied science and one-year technical certificate programs, students are **REQUIRED** to attend lecture, college laboratories and off-campus facilities. Transportation to and from off-campus facilities is the responsibility of students and is not provided by the College.

The fire science curriculum is offered in the evenings and online. The program is arranged for part-time students employed in the field and/or working in another field and retraining for fire science. All **REQUIRED** courses are rotated through the evening offerings.

### **Program Learning Outcomes**

1. Exhibit an understanding of basic principles of firefighter life safety initiatives.
2. Identify, examine and apply current and emerging concepts and practices in Fire and Emergency Services
3. Understand the responsibilities of fire prevention, inspections and public relations.
4. Demonstrate an understanding of the administrative workings of a fire department including budget preparation, resource allocation, long-range planning, and fiscal projections.