



## **Fire Science Technology A.A.S.**

Career Community: Public Service Careers

Curriculum Code: 0123

Effective: Fall 2024 – Summer 2029

### **Description**

This degree program provides students with the option to pursue a fire service career. This option follows a general fire service career path and has two options: Firefighter, which meets the state standards of the Michigan Fire Fighter Training Council's Fire Fighter I and II certification process, and Fire Service for students who do not wish to become a Fire Fighter.

### **Milestone**

In addition to the required General Education courses in Math and English, completion of FIRE 100 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

### **Additional Information**

Students who successfully complete LCC's Fire Science Academy may substitute the Academy courses; FIRE 101, FIRE 102, and PFFT 119, for the entire fourth semester of this guided pathway. Please see an advisor in the Public Service Careers Department office for more information.

Not all courses in this program transfer to all colleges. Students planning to transfer should see a Fire Science advisor before enrolling in any course.

### **Contact Information**

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program via website, or in person at West Campus Building, Room M127, telephone number 517-483-1570.

### **General Education Applied Degree, Recommended Choices**

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one*  
Career Community Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication – *Select one*  
Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*  
Career Community Courses meet this requirement.
- Mathematics or Applied Mathematics – *Select one*  
Career Community Courses meet this requirement.

- Natural Sciences Lab or Applied Science and Technology Lab – *Select one* Program of Study Required Courses meet this requirement.

### Career Community Courses

*These courses are required for all Public Service Career programs (Criminal Justice and Fire). They should be taken before other Program Required or Limited Choice Courses. Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CJUS 101 or CJUS 131 or FIRE 100	Intro to Criminal Justice Introduction to Corrections Principles Emergency Services	3 / 3 3 / 3 4 / 4
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For this Fire Science Technology major, choose FIRE 100.

Students considering future transfer, choose PSYC 200 or SOCL 120.

## Program of Study Required Courses

Course Code	Course Title	Credit/ Billing Hours
FIRE 100	Principles of Emergency Services	4 / 4
FIRE 104	Fire Behavior & Combustion	3 / 3
FIRE 105	Fire/Hydraulics/Water Supply	4 / 4
FIRE 110	Fire Prevention	3 / 3
FIRE 112	Occup Health & Safety/Fire Svc	4 / 4
FIRE 115	Bldg Construction/Fire Protect	4 / 4
FIRE 125	Fire Protection Systems	4 / 4
FIRE 150	Strategy and Tactics	4 / 4
FIRE 210	Fire Investigation I	4 / 4
FIRE 220	Hazardous Materials/Fire Svc	4 / 5
FIRE 250	Fire Administration I	4 / 4
FIRE 270	Fire Service Career Developmnt	3 / 3

Note: If FIRE 100 was completed for the Career Community, do not repeat enrollment.

**Program of Study Required Courses, Limited Choice – Natural Science or Applied Science and Technology Lab** – *Select one as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Science or Applied Science and Technology Lab](#).*

Course Code	Course Title	Credit/ Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Note: For this Fire Science Technology major, BIOL 145 is recommended.

### Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

### Minimum Total Credit Hours

62 credits / 63 billing hours

## Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
FIRE 100 – Milestone course
FIRE 104
FIRE 105
MATH 119 or MATH 120 or STAT 170

Semester II
FIRE 110
FIRE 112
Limited Choice, Natural Science or Applied Science and Technology Lab

Semester III
COMM 120, COMM 130, ENGL 122, or ENGL 132
FIRE 115
FIRE 125
FIRE 150
MGMT 234 or PSYC 200 or SOCL 120

Semester IV
FIRE 210
FIRE 220
FIRE 250
FIRE 270

*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.*