

FIRE SCIENCE

Curriculum Guide for Academic Year 2011-2012

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Students planning to **transfer** to a four-year college or university should refer to the ASSIST web site at www.assist.org and **consult a counselor** before beginning a program of study. To meet with a counselor call 562-938-4561 for the LAC, or (562) 938-3920 for PCC. Students may also wish to visit the Transfer Center on either campus.

Program of study leading to: <u>Associate in Science (A.A.) Degree</u>				
<u>REQUIRED CORE COURSES</u>		UNITS	In Progress	Completed Grade
FIRE 1	Fire Protection Organization	3		
FIRE 2	Fire Prevention Technology	3		
FIRE 3	Fire Protection Equipment & Systems	3		
FIRE 4	Building Construction	3		
FIRE 5	Fire Behavior & Combustion	3		
Subtotal Units		15		
<u>IN ADDITION, complete NINE (9) UNITS from the following courses:</u>		UNITS		
FIRE 6A	Fire Command 1A	2		
FIRE 6B	Fire Command 1B	2		
FIRE 7A	Fire Prevention Officer 1A	2		
FIRE 7B	Fire Prevention Officer 1B	2		
FIRE 7C	Fire Prevention Officer 1C	2		
FIRE 10A	Fire Instructor 1A	2		
FIRE 10B	Fire Instructor 1A	2		
FIRE 16A	Fire Investigator 1A	2		
FIRE 16B	Fire Investigator 1B	2		
FIRE 26A	Fire Command 2A	2		
FIRE 26B	Fire Command 2A	2		
FIRE 40	Fire Management 1	2		
FIRE 42A	Fire Management 2A	2		
FIRE 42B	Fire Management 2B	2		
FIRE 53	Fire Hydraulics	3		
FIRE 54	Hazardous Materials 1	3		
FIRE 57	Introduction to Tactics and Strategy	3		
FIRE 58	Introduction to Fire Company Administration	3		
FIRE 60	Fire Investigation 1	3		
FIRE 61	Rescue Practices	3		
FIRE 62	Fire Apparatus and Equipment	3		
FIRE 64	Hazardous Materials 2	3		
FIRE 65	Fundamentals of Fire Safety	3		
FIRE 203	Fire Tools, Equipment & Related Technology	1		
FIRE 240AD	Firefighter I Physical Agility	0.5		

Associate Degree requirements continue on the following page:

Associate Degree requirements continued from the previous page:

FIRE 242C	Fire Management 2C	2		
FIRE 245	Marine/Fire Safety	2		
FIRE 250	Basic Fire Service Training	9		
FIRE 271AD OR 272AD OR 273AD	Work Experience—Fire Science	2 OR 3 OR 4		
FIRE 298A	Fire Tools	1		
FIRE 400A-F	Special Topics in Fire Science	1-5		
♦ EMT 251 & 251L	Emergency Medical Technician & Lab ratory	4.5		
PUBAD 1	Introduction to Public Administration	3		
	Subtotal Units	9		
	TOTAL UNITS	24		

For graduation with an **Associate in Science (A.S.) Degree with a major in Fire Science:**

1. **Units:** Complete a minimum of 60 units, distributed as follows:

Fire Science Major:	24 units
General Education/A.S.	19 units
<u>Electives/Other courses:</u>	17 units
TOTAL:	60 units

2. **Scholarship:** Maintain an **overall grade point average (GPA) of 2.0** ("C" average) based on all accredited college work applied to the degree, no matter where completed. For this **field of concentration, complete each course above with a grade of "C" or better**, or "P" if course is graded on a P/NP basis.
3. **Residence for the Degree:** Complete at least 30 units of the required 60 in residence at LBCC, or complete in residence at LBCC at least 20 units within the last 30 units of work applied to the degree.
4. **Residence for the Field of Concentration:** Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 12 units** of the required 24 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
5. **General Education and Proficiency Requirements:** Complete the required A.A./A.S. General Education and Proficiency requirements*, otherwise known as "Plan A". For Plan A requirements, refer to the general catalog or view it online at <http://osca.lbcc.edu> .
6. Complete and submit the degree application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/> . Refer to the Schedule of Classes (<http://schedule.lbcc.edu>) and click the "Important Dates" link to view the actual deadline for each semester.

*The requirements for general education/proficiency and the field of concentration (major) need to be from the same catalog year. This catalog year may be any year between the year of initial enrollment to the present, provided continuous enrollment is maintained throughout. See the catalog for definition of "continuous enrollment".

Unless otherwise noted, "double-counting" is not allowed. That is, one course may not be used to fulfill both a field of concentration requirement and to fulfill a general education requirement.

**Program of study leading to:
Certificate of Achievement**

REQUIRED COURSES—Complete the 24 units of required courses as listed in the Associate Degree requirements box on the preceding pages.

<u>REQUIRED COURSES</u>	TOTAL UNITS	24	In Progress	Completed

For graduation with a **Fire Science Certificate of Achievement**:

1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of "C"** or better, or "P" if course is graded on a P/NP basis.
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 12 units** of the required 24 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
3. Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/> . Refer to the Schedule of Classes (<http://schedule.lbcc.edu/>) and click the "Important Dates" link to view the actual deadline for each semester.

For the **Associate in Arts** degree, the following courses are recommended, **BUT ARE NOT REQUIRED** to earn either.
RECOMMENDED but not required courses:

Recommended for the **SOCIAL SCIENCES** General Education Requirement:

PUBAD 1	Introduction to Public Administration	3	
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Suggested Sequence of Classes

This is not an educational plan, as course offerings, student schedules, and circumstances vary. Students must meet all the prerequisites in order to be eligible for the sequence of courses.

A suggested, full-time sample sequence of courses to meet the unit requirement for the Associate Degree includes:

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
ENGL course	3	FIRE 2	3
FIRE 1	3	FIRE 4	3
FIRE 3	3	G.E. Course	3-5
G.E. Course	3-5	G.E. Course	3-5
G.E. Course	3-5		
Semester Total	15 – 19	Semester Total	12 – 16
<u>Third Semester</u>	<u>Units</u>	<u>Fourth Semester</u>	<u>Units</u>
FIRE 5	3	EMT 251	3
MATH Course	3	EMT 251L	1.5
FIRE Elective	3	G.E. Course	3-5
G.E. Course	3-5	G.E. Course	3-5
G.E Course	3-5		
Semester Total	15 – 19	Semester Total	10.5 – 14.5

Career Opportunities

Students are educated and trained in the technical fields relating to fire and safety practices. This program also provides partial lower-division preparation for the baccalaureate degree in this field.

This **Certificate of Achievement** will prepare students for entry to a fire academy and for an entry-level position in private and public fire-related occupations.

This **Associate Degree** will prepare students for entry to a fire academy and for career advancement for those already employed in a fire-related industry.

Program Mission and Outcomes

Prepare students for careers in the fire service and enhance skills for those who are currently employed in that area.

Outcomes:

- Explore the history, development, structure, and functions of the American fire service.
- Apply prevention/protection/fire-fighting theories, principles, and concepts to address real-life situations in the field.
- Recognize the importance of and practice the safety behaviors in a professional fire service setting.
- Analyze, interpret, and evaluate prevention/protection/fire fighting theories, policies, practices, and procedures to develop strategies to prevent, control, and fight fires.

Legend

† This course has a prerequisite. Prerequisite courses must be complete with at least a “C” or “P” grade. Refer to the General Catalog (<http://www.lbcc.edu/cat/index.html>), the Schedule of Classes (<http://schedule.lbcc.edu/>), or the online Credit Course Outline (<http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/>) for specific prerequisite information.

- ◆ Students who complete this instruction as a portion of basic academy may use those credits to satisfy this requirement.