



COURSE OUTLINE : FIRE 108
D Credit – Degree Applicable
COURSE ID 001487
Cyclical Review: February 2020
Revision: October 2021

COURSE DISCIPLINE : FIRE
COURSE NUMBER : 108
COURSE TITLE (FULL) : Fire Apparatus And Equipment
COURSE TITLE (SHORT) : Apparatus/Equipment
ACADEMIC SENATE DISCIPLINE: Fire Technology

CATALOG DESCRIPTION

FIRE 108 covers the general technical knowledge of driving laws, driving techniques, construction, and operation of pumping engines, ladder trucks, aerial platforms, and specialized equipment. This course also includes information on firefighter licensing programs in California and apparatus maintenance procedures.

Total Lecture Units:3.00

Total Laboratory Units: 0.00

Total Course Units: 3.00

Total Lecture Hours:54.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

Total Out-of-Class Hours: 108.00

Recommended Preparation: ENGL 100 or ESL 141.



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ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	ENGL	100	Writing Workshop	write a summary of a contemporary article or story with correct citation techniques;	Yes
2	ENGL	100	Writing Workshop	write an argumentative essay that integrates the ideas of others (i.e., authors) through paraphrasing, summarizing, and quoting with correct citation techniques;	Yes
3	ESL	141	Grammar And Writing IV	comprehend multi-paragraph reading passages in textbooks.	Yes

EXIT STANDARDS

- 1 describe ladder trucks fire pump capabilities and compare to other fire apparatus;
- 2 explain the correct positioning of fire apparatus on the fire ground;
- 3 explain daily, monthly and annual recommended fire apparatus safety inspections and those required by state and local laws;
- 4 explain differences in operation of a fire engine, fire truck, wildland apparatus and special rescue apparatus.
- 5 given a fire ground situation, explain the role of the apparatus operator.

STUDENT LEARNING OUTCOMES

- 1 Identify the role and function of each type of fire apparatus.
- 2 define the skills needed to safely and properly operate and use fire apparatus used in the fire service today.
- 3 describe the construction and operation of the pumping mechanism on a fire apparatus.
- 4 explain licensing requirements needed to operate fire apparatus within the state of California.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Driving <ul style="list-style-type: none"> • State vehicle code • Local codes • Department rules • Driving techniques • Placement of apparatus at emergencies • DMV requirements, Firefighter license/Restricted 	12	0	12



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2	<p>Construction, Operation, and Maintenance of Pumping Apparatus</p> <ul style="list-style-type: none"> • Construction • Maintenance • Pumping techniques • Hydrant operations • Pumping techniques • Tank operations • Relay pumping • Water supply 	12	0	12
3	<p>Construction, Operation, and Maintenance of Aerial Ladder Trucks</p> <ul style="list-style-type: none"> • Aerial ladder operations • Operating techniques • Stabilizing the ladder/unit • Safety precautions • Loading • Water tower operations 	12	0	12
4	<p>Construction, Operation, and Maintenance of Aerial Platforms</p> <ul style="list-style-type: none"> • Maintenance • Operation techniques and safe operations • Stabilization protocols • Safety precautions, safe usage while operating 	10	0	10
5	<p>Specializing Equipment</p> <ul style="list-style-type: none"> • Wildland TYPEII apparatus • Review of water craft • Quads and other off road vehicles used for rescue 	8	0	8
				54

OUT OF CLASS ASSIGNMENTS

- 1 Written essays on fire apparatus



METHODS OF EVALUATION

- 1 quizzes;
- 2 midterm examination;
- 3 final examination.

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	ISBN	Date
Fire Apparatus Driver/Operator: Pump, Aerial, Tiller, and Mobile Water Supply	Required	IFSTA	2	print	Jones and Bartlett	978-1284026917	2019

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