



Basic Course Information

Semester:	Spring 2021	Instructor Name:	Alfredo Estrada
Course Title & #:	Fire 142- Firefighter Academy I	Email:	Alfredo.estradajr@imperial.edu
CRN #:	2100	Webpage (optional):	None
Classroom:	3200 & Zoom	Office #:	760 222-0177
Class Dates:	Spring 2021	Office Hours:	None
Class Days:	We, Fri, Sat	Office Phone #:	760 222-0177
Class Times:	Wed 06:00-10:00, Friday 06:00-10:00, Sat 08:00-16:30	Emergency Contact:	Alfredo Estrada
Units:	3	Class Format:	Face-to-Face & Zoom

Course Description

Basic Fire Academy I and II is designed for the individual who desires a career as a professional fire fighter. This course includes instruction in basic firefighting skills, personnel rules and regulations in professional organizations, equipment operation and maintenance, elementary fire behavior, fire ground safety and operations, self-contained breathing apparatus operation and maintenance, portable fire extinguisher operation and maintenance, firefighting tactics and strategies on the fire ground. This course is intensive, requiring the students' total dedication for successful completion.

Course Prerequisite(s) and/or Corequisite(s)

None

Student Learning Outcomes

1. Define and demonstrate knowledge of fire department organization and culture, and the expectations of entry-level fire department personnel.(ILO1, ILO2)
2. Demonstrate knowledge of fire department equipment through the selection and application of equipment for given firefighting tasks. (ILO1, ILO2)
3. Analyze and assess firefighter hazards inherent to the profession. (ILO1, ILO3)
4. Demonstrate the ability to communicate effectively through multiple methods of communication including: written, electronic, face to face, and radio transmitted messages. (ILO1, ILO2, ILO3, ILO4)
5. Demonstrate their knowledge of strategies, tactics and incident command through the selection and implementation of firefighting methods, and the application of the Incident Command and Emergency Management Systems. (ILO1, ILO2, ILO3, ILO4)
6. Demonstrate safe practices by using minimum standard safety procedures compliant with industry standards. (ILO1, ILO2, ILO3, ILO4)

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Demonstrate knowledge and skills necessary to safely perform tasks required of an entry-level fire fighter, including fire behavior, extinguishment theory, water systems, fire protection systems, fire behavior, investigation and essential fire-ground operation.
2. Demonstrate knowledge and proficiency use, inspect, test and maintain the tools, equipment, and accessories necessary to perform the job of a firefighter, including but not limited to hand, power, and hydraulic tools, chain and circular saws, forcible entry tools, air chisels, lighting equipment, fire service jacks, flares or fuses, thermal imaging devices and navigational tools.
3. Comprehend and analyze characteristics of fire behavior, and evaluate a variety of methods and techniques for containment and extinguishment.
4. Recognize and describe common causes of injury and death associated with firefighting and ways to improve safety.
5. Demonstrate knowledge and skills necessary to safely use, inspect and maintain self-contained breathing apparatus.
6. Demonstrate knowledge and skill to inspect and effectively operate fire extinguishers.
7. Apply information on the different types of fire service ropes, their usage, construction, inspection, proper care, storage and record keeping requirements.
8. Comprehend and demonstrate knowledge on information, methods, and techniques for the use, inspection, care and maintenance of hoses, nozzles and appliances.
9. Demonstrate knowledge of methods and techniques for use, inspection, care and maintenance and testing of ground ladders

Textbooks & Other Resources or Links

Fundamentals of Fire Fighter Skills

Publication Date: **2018** | ISBN **1284151425** | ISBN-13: **978-1284151428** | Edition: **4**

Course Requirements and Instructional Methods

Students must complete:

- Firefighter 1 Capstone Task Book
- Firefighter 1 Skills Testing Summary Sheets
- Assigned weekly quizzes
- Assigned weekly skills
- Presentation- weekly skills
- Weekly manipulative skills



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Course Grading Based on Course Objectives

- Written/Online tests** will be completed after each section of the course. Multiple-choice, matching, identify, and short-answer written tests are used to evaluate student achievement of the cognitive lesson objectives taught. Each test item has its own criterion standard. To show mastery of each tested objective, you must achieve a required percentage score of 70%.

- Skills Sheet** will be completed after each section of the course that requires evaluation of the student's mastery of the lesson's psychomotor objectives. Performance tests address the highest thinking and performance skills that are likely to give the firefighter the most problems on the job. All manipulative skills must be passed with a percentage score of 80%.

- Final Evaluation:**
 - A) All written tests must be successfully completed.
 - B) All performance tests must be successfully completed.
 - C) Final exam must be successfully completed with a grade of "C" or above.

- All Make up tests** will be given by the Lead Instructor. The highest score that you are able to attain is a 70% regardless of the higher score you achieve.

Course Policies

Follow Fire Academy Rules and Regulations Manual: copy provided for each student

Other Course Information and IVC Student Resources

Attendance

A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.

- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette



- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the [General Catalog](#).
- **Children in the classroom:** Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- **Plagiarism** is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the [General Catalog](#) for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Additional Student Services

- **Learning Services.** There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **Library Services.** There is more to our library than just books. You have access to tutors in the [Study Skills Center](#), study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the [Disabled Student Programs and Services](#) (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.



Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **[Student Health Center](#)**. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District and El Centro Regional Center provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6310 in Room 2109 for more information.
- **[Mental Health Counseling Services](#)**. Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Anticipated Class Schedule/Calendar

Subject to change without prior notice



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 FIRE SCIENCE ACADEMY
 FIRE 142
 Hourly Distribution
 IVC Code CRN: 21000 - Spring 2021
 HOURLY DISTRIBUTION

DATE	DAY	TIME	LOCATION	TOPIC NO.	***For compensation tab purposes only	Chp	STATE OF CA TOPIC	INSTRUCTOR(S)
02/17/21	Wednesday	1800-2200	Zoom	1	1A	1	1.1 - Orientation and History of Fire Service and Administration	A. Estrada Jr.
02/19/21	Friday	1800-2200	Zoom	1	1B	1	1.2 1.3 - Fire Fighter 1 & 2 Roles and Responsibilities	E. Martinez
02/20/21	Saturday	0800-1815	3204	1	1C	N/A	Gear assignment & Physical Conditioning	S. Flores / A. Estrada Jr. / R. Malek
02/24/21	Wednesday	1800-2200	Zoom	2	2A	2	Operating within the ICS (FF1A) Health & Safety Awareness (FF1A) Behavioral health (FF1A) Cancer Awareness (FF1A) Responding on an Apparatus to an Emergency Scene (FF1A) Establishing & Operating in work areas at emergency scene (FF1A)	E. Martinez
02/26/21	Friday	1800-2200	Zoom	2	2B	3	Structural Personal Protective Ensemble (FF1A) Self-Contained Breathing Apparatus (FF1A) Using SCBA During Emergency Operations (FF1A) Doffing SCBA and PPE for Gross Decontamination (FF1A)	A. Castro
02/27/20	Saturday	0800-1815	3204	2	2C		State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
03/03/21	Wednesday	1800-2200	Zoom	3	3A	4 & 22	Receiving a non-emergency telephone call (FFIA) Initiating a response to reported emergency (FFIA) Transmitting and Receiving messages via radio (FFIA) Completing a basic incident report (FF2A) Communicating the need for Team Assistance (FF2A)	J. Green
03/05/21	Friday	1800-2200	Zoom	4	4A	8 & 9	Utilizing Ropes and Knots (FFIA) Utilizing Hand and Power Tools (FF1A) Operating Emergency Scene Lighting (FF1A) Operating an Air-Monitoring Instrument (FF1A)	E. Martinez
03/06/21	Saturday	0800-1815	3204	4	4B		Maintaining Power Plants, power Tools, and Lighting Equipment (FF2A) State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
03/10/21	Wednesday	1800-2200	Zoom	5	5A	5 & 6	Building Constructions (FF1A) Fire Behavior (FF1A)	J. Green
03/12/21	Friday	1800-2200	Zoom	5	5B	7 & 14	Portable Fire Extinguishers (FF1A) Water Supply Systems (FF1A)	E. Martinez
03/13/21	Saturday	0800-1815	3204	5	5C		State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	A. Estrada Sr. / A. Estrada Jr. / S. Flores
03/17/21	Wednesday	1800-2200	Zoom	5	5D	15 & 17	Cleaning, Inspecting and Returning fire hose to service (FF1A) Performing an Annual Service Test on a Fire Hose (FF2A) Deploy and Connect Fire Hose (FF1A) Utility Control at Emergencies (FF1A)	J. Green
03/19/21	Friday	1800-2200	Zoom	5	5E	10 & 11	Cleaning, Inspecting and Maintaining Fire Service Ladders (FF1A) Ground Ladder Operations (FF1A) Forcing Entry into a Structure (FF1A)	A. Estrada Jr.
03/20/21	Saturday	0800-1815	3204	5	5F		State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
03/24/21	Wednesday	1800-2200	Zoom	5	5G	12 & 16	Conducting a Search and Rescue Operation in a Structure (FF1A) Attacking an Interior Structure Fire (FF1A)	J. Green
03/26/21	Friday	1800-2200	Zoom	5	5H	13 & 19	Horizontal Ventilation Operations (FF1A) Vertical Ventilation Operations (FF1A) Conserving Property (FF1A) Overhauling a Fire Scene (FF1A)	A. Estrada Jr.
03/27/21	Saturday	0800-1815	3204	5	5I		Protecting Evidence of Fire Cause and Origin (FF2A) State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
03/31/21	Wednesday	1800-2200	Zoom	6	6A	18	Structural Fire Fighter Survival (FF1A)	E. Martinez
04/02/21	Friday	1800-2200	Zoom	7	7A	17	Extinguishing Fire in Exterior Class A Materials (FF1A) Attacking a passenger Vehicle Fire (FF1A) Combating a Ground Cover Fire (FF1A)	E. Martinez
04/03/21	Saturday	0800-1815	3204	7	7B		State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	A. Estrada Sr. / A. Estrada Jr. / R. Malek
04/14/21	Wednesday	1800-2200	Zoom	7	7C	23	Extinguishing an Ignitable Liquid Fire (FF2A) Controlling a Flammable Gas Cylinder Fire (FF2A)	A. Castro
04/16/21	Friday	1800-2200	Zoom	8	8A	24 & 25	Extraction a Victim Entrapped in a Motor Vehicle (FF2A) Assisting Rescue Operation Teams (FF2A)	E. Martinez
04/17/21	Saturday	0800-1815	3204	8	8B		State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
04/21/21	Wednesday	1800-2200	Zoom	9	9A	27	Performing a Fire Safety Survey in an occupied Structure (FF2A) Presenting Fire Safety Information to Station Visitors or Small Groups (FF2A)	M. Marquez
04/23/21	Friday	1800-2200	Zoom	9	9B	33	Preparing a Preincident Survey (FF2A)	J. Green
04/24/21	Saturday	0800-1815	3204	10	10A		Live Burn (State Fire Lead Evaluators I&II must be present)	A. Estrada Sr. / A. Estrada Jr. / R. Malek / A. Castro / M. Marquez / E. Martinez / S. Flores
04/28/21	Wednesday	1800-2200	3204	10	10B		Skills Practice	A. Estrada Sr.
04/30/21	Friday	1800-2200	3204	10	10C		Skills Practice	E. Martinez
05/01/21	Saturday	0800-1815	3204	10	10D		Live Burn (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
05/05/21	Wednesday	1800-2200	3204	10	10E		Skills Practice	J. Green
05/07/21	Friday	1800-2200	3204	10	10F		Skills Practice	J. Green
05/08/21	Saturday	0800-1815	3204	10	10G		State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	A. Estrada Sr. / A. Estrada Jr. / R. Malek
05/12/21	Wednesday	1800-2200	3204	10	10H		Skills Practice	E. Martinez
05/14/21	Friday	1800-2200	3204	10	10I		Skills Practice	E. Martinez
05/15/21	Saturday	0800-1815	3204	10	10J		State Required FF1 / FFII Psychomotor Skills (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
05/19/21	Wednesday	1800-2200	Junk Yard	11	11A		State Auto X (State Fire Lead Evaluators I&II must be present)	A. Estrada Jr.
05/21/21	Friday	1800-2200	Junk Yard	11	11B		State Auto X (State Fire Lead Evaluators I&II must be present)	A. Estrada Jr.
05/22/21	Saturday	0800-1815	Junk Yard	11	11C		State Auto X (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
05/26/21	Wednesday	1800-2200	3204	12	12A		Wildland and Ground Fires (FF1C)	J. Green
05/28/21	Friday	1800-2200	3204	12	12B		Wildland and Ground Fires (FF1C)	J. Green
05/29/21	Saturday	0800-1815	3204	12	12C		Wildland and Ground Fires (FF1C) (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
06/02/21	Wednesday	1800-2200	3204	13	13A		HazMat FRA (FF1B) (State Fire Lead Evaluators I&II must be present)	S. Flores
06/04/21	Friday	1800-2200	3204	13	13B		HazMat FRO (FF1B) (State Fire Lead Evaluators I&II must be present)	S. Flores
06/05/21	Saturday	0800-1815	3204	13	13C		HazMat FRO (FF1B) (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
06/09/21	Wednesday	1800-2200	3204	14	14A		Final Written Exam (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
06/11/21	Friday	1800-2200	3204	14	14B		Final Written Exam (State Fire Lead Evaluators I&II must be present)	S. Flores / A. Estrada Jr. / R. Malek
06/12/21	Saturday	1800-2200	3204	14	14C		Final Skills Exam Burn Day (State Fire Lead Evaluators I&II must be present)	A. Estrada Sr. / A. Estrada Jr. / R. Malek / A. Yoneda / J. Green / E. Martinez / S. Flores

ROOMS - EVENT ID	
Wednesday	1800-2200
Friday	1800-2200
Saturday	0800-1815
	3201 / 3204 (whichever is available)
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