



OXNARD COLLEGE FIRE TECHNOLOGY FT R154 Fire Behavior and Principles of Combustion Fall Semester 2021

FT R154

Zoom Meetings: Monday: 0100 - 4000 pm

Class Section: Number: 72291

Instructor: Kevin Kearns

Fall 2021

E-Mail: Kevin_Kearns@vcccd.edu, kevinadrienne@verizon.net

Phone: 805 341-6290

TEXT: You will not need a Text Book for this class. I will give you everything you will need to be successful.

SUPPLEMENTAL READING: From time to time, the instructor may provide supplemental reading material for which the students will be responsible.

1. STUDENT LEARNING OUTCOMES:

Students will be able to:

- A.** Describe the principles of combustion and the concepts of fire behavior as they apply to fire suppression activities.
- B.** Define and use basic terms and concepts associated with the chemistry and dynamics of fire.
- C.** Demonstrate knowledge of the characteristics of water as a fire suppression agent and identify other suppression agents and strategies.
- D.** Recognize how fire behavior affects fire ground operations and strategies.

2. CATALOG DESCRIPTION:

This course introduces the student to the principles of fire behavior and combustion and how these factors relate to a multitude of fire ground operations.



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3. **GRADING:** Final grades will be based on two examinations (mid-term and final), 13 quizzes, and class participation.

Point totals are as follows:

Quizzes 15	150 points (10 points each)
Mid Term	50 points
Final	100 points
Participation	20
Total	320 points

The following scale will determine grades:

<u>Points</u>	<u>Percent</u>
288 - 320	90% = A
256 - 287	80% = B
224 - 254	70% = C
192 - 223	60% = D
0– 191	= F

4. **ATTENDANCE:** I have Zoom Meetings on Monday from 1 – 4 pm. All meetings will be recorded so students can watch that week. If the assignments or Quizzes are not completed that week I will record you as absent for that week.

Students may be dropped, at instructor's discretion, after 2 days of unexcused absence. *Oxnard College Catalog Academic Policies, page 18.*



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Important Information To Remember

VCCCD Production Database

Fall 2021

Full Term

CRN	SUBJ	CRSE	SEC			CREDITS
72291	FT	R154	002	FIRE BEHAVIOR/PRIN COMBUSTION		3.00
INSTRUCTOR(S) - (P)primary				TYPE	DAYS	TIME
Kearns, Kevin (P)				Dist Ed: Internet delayed	TBA	-

DATES:	Class starts:	16 AUG 2021	Class ends: 12/15/2021
	Census Deadline:	06 SEP 2021	Census Date: 09/07/2021
	Deadline to drop WITHOUT "W":	06 SEP 2021	Deadline to drop WITH "W": 11/19/2021

Plagiarism will not be tolerated. Any evidence of cheating will result in referring your name to the college administration for disciplinary action. Oxnard College Catalog Academic Policies, Page 23.



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Students with learning disabilities: For student assistance and/or to be evaluated, please contact OC Educational Assistance Center at 986-5830.

Statement of Reasonable Accommodation:

Oxnard College faculty members fully support the Americans with Disabilities Act (ADA), Title 5, Section 508, and the Rehab. Act of 1973. Members of the faculty will provide reasonable accommodation to any student with a disability who is registered with the Educational Assistance Center (EAC) who needs and requests accommodation. Faculty may wish to contact the EAC to verify the presence of a disability and confirm that accommodation is necessary. EAC will arrange and provide for the accommodation. Reasonable accommodation may involve allowing a student to use an interpreter, note taker, or reader; accommodation may be needed during class sessions and for administration of examinations. The intent of the ADA in requiring consideration of reasonable accommodation is not to give a particular student an unfair advantage over other students, but simply to allow a student with a disability to have an equal opportunity to be successful.

Students who leave the class are expected to follow the appropriate drop procedure. Students who drop the course but who do not formally withdraw and complete the appropriate drop procedures may expect to receive an "F" grade for the course.



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Weekly Schedule of Class

08/16/21	1	Introductions, class overview and assignments	Formula to becoming a Firefighter
08/23/21	2	Lecture / Quiz 1	History of the Fire Service
08/30/21	3	Lecture / Quiz 2	The Combustion Process
09/06/21	4	Holiday No Class	
09/13/21	5	Lecture / Quiz 3	The Selection Process / Fire Apparatus
09/20/21	6	Lecture / Quiz 4	Building Construction / Strategy & Tactics
09/27/21	7	Lecture / Quiz 5	Hazardous Materials / Car & Truck Fires
10/04/21	8	Lecture / Quiz 6	Ventilation / Car & Truck Fires
10/11/21	9	Lecture / Quiz 7	Fires in Buildings 1 & 2
10/18/21	10	Mid-Term	
10/25/21	11	Lecture / Quiz 8	Wild Land Firefighting
11/01/21	12	Lecture / Quiz 9	Duties of a Firefighter
11/08/21	13	Lecture / Quiz 10	Safety & Survival
11/15/21	14	Lecture / Quiz 11	Fire Ground Planning & Tactics
11/22/21	15	Lecture / Quiz 12	Interview Preparation
11/29/21	16	Lecture / Quiz 13	High Rise Building Fires
12/06/21	17	Lecture / Quiz 14	Personal Protective Equipment Technical Rescue Support / Vehicle Extrication Operations
12/13/21	18	FINAL EXAM	



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*** Keep a copy of this Syllabus for your records
many colleges require these upon registration**