

EL CAMINO COLLEGE
FIRE & EMERGENCY TECHNOLOGY DEPARTMENT

Fire Technology 5, Fundamentals of Fire Behavior & Combustion

Section # 7580

Mondays 9:30 to 12:40 pm

Room: ITEC 223

Fall 2015

Capt. Kevin Huben, L.A.Co.F.D

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TEXTBOOKS: Firefighting Strategies & Tactics, 3rd Edition

Angle, Delmar Publishing, 2015

Optional: Workbook for Firefighting Strategies & Tactics

Angle, Delmar Publishing, 2015

Grading Criteria:	Quizzes	100 Points
	Mid-Term Exam	100 Points
	Final Exam	100 Points
	<u>Term Paper</u>	<u>100 Points</u>
	Total	400 Points

Letter Grade 'A'	360-400 Points
Letter Grade 'B'	320-359 Points
Letter Grade 'C'	280- 319 Points
Letter Grade 'D'	240- 279 Points
Letter Grade 'F'	239 & Below

The midterm exam will cover the material given to date in the class. The material will include information from the textbook, reference material, handouts, lectures, overheads, powerpoint slides, cd/dvd's and video tapes. The final exam is comprehensive and will cover all the material in the class from the beginning. You must maintain a 70% average in all 4 point areas to successfully complete the class.

The assigned reading is to be done prior to the class meeting. At the end of each chapter are 'Case Study' and 'Review' questions. These questions are actually your 'take home' quizzes. The review questions from the end of each assigned chapter are to be turned in at the beginning of the class in which we will be covering the material.

Attendance: On time attendance is required. College attendance policies relating to 16 week classes allow for only 1 full absence before you may be dropped from the class (reference 2015-2016 College Catalog, Section 1, "Attendance During Semester"). Being late (up to 15 minutes) twice constitutes 1 absence. Being late in excess of 30 minutes constitutes 1 absence. Please adhere to the attendance policy.

Term Paper: One of the requirements to successfully complete this class involves the completion of a term paper / research project. The term paper must be a college-level report at least 5 pages in length not including the index or bibliography.

Please refer to the separate handouts relative to term-paper specifics, including both contents and format.

The use of electronic devices such as cell phones, text messaging, pagers, camera phones or other devices are not allowed while class is in session. Not only do these devices distract from your ability to concentrate on the information being presented, their usage is also a distraction for those students around you. Please refrain from using these devices while in class.

Disability Statement: Students with disabilities who believe they may need accommodations in this class are encouraged to contact the Special Resources Center here on campus as soon as possible to better ensure such accommodations are implemented in a timely fashion. You may contact the Special Resources Center at 310-660-3593, ext. 3295 or ext. 3296. You may also contact me privately to discuss your specific needs.

Office Hours: Instructor office hours will be announced the first week of class.

Student Learning Outcomes:

Upon the successful completion of this class the student will be able to:

- Identify the terms and concepts related to fire behavior
- Identify the 5 basic sections of the ICS system
- Identify the 3 physical states of matter and their physical properties

Academic Honesty: Students are expected to comply with Board Policy 5500, Section I and Academic Policy 5520 Section A, as it relates to academic honesty. These sections cover, but are not limited to: cheating, plagiarism and theft of exam material. Please see the instructor if you have any questions.

Course Overview: This course discusses the theory and fundamentals of how and why fires start, spread and are controlled as well as in-depth study of fire chemistry and physics, fire characteristics of materials extinguishing agents and fire control techniques.

FUNDAMENTALS OF FIRE BEHAVIOR AND COMBUSTION
CLASS MEETING SCHEDULE

DATE	SUBJECT	READING ASSIGNMENT
Aug. 24	Introduction / Registration / Etc.	
Aug. 31	History / Firefighter Safety	Ch. 1 & 2
Sept. 7	Labor Day Holiday	<u>NO CLASS</u>
Sept. 14	ICS / Coord. & Control	Ch. 3 & 4
Sept. 21	Bldg. Constr. / Fire Dynamics	Ch. 5 & 6
Sept. 28	Pre-Incid. Plan. / Exting. Agents	Ch. 7 & 8
Oct. 5	Built-in F.P. / Company Op's	Ch. 9 & 10
Oct. 12	<u>Mid-Term Examination</u>	
Oct. 19	Single Family Dwellings	Ch. 11
Oct. 26	Apartments / Multi-Family	Ch. 12
Nov. 2	Commercial	Ch. 13
Nov. 9	Assembly	Ch. 14
Nov. 16	High-Rise / Vehicle Fires	Ch. 15 & 16
Nov. 23	Wildland / Special Fires <u>TERM PAPERS DUE</u>	Ch. 17 & 18
Nov. 30	After Incident Rev.'s / Scenarios Review for Final Exam	Ch. 19 & 20
Dec. 7	<u>Final Examination</u>	

Assignments and quizzes may need minor adjustments to accommodate subject matter coverage.