

EL CAMINO COLLEGE
FIRE & EMERGENCY TECHNOLOGY DEPARTMENT

Fire Technology 20, **Fire Protection Equipment & Systems**

Section # 7592

Wednesdays 9:30 to 12:40 pm

Room: T/A 255

Fall 2014

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

310-660-3593 ext. 3619

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TEXTBOOKS: Fire Detection & Suppression Systems, 4th Edition
IFSTA, Fire Protection Publications, 2011

<u>Grading Criteria:</u>	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. Each chapter has 10 review questions at the end of the chapter. Those review 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. A 10th quiz will be given covering definitions taken from the glossary in the back of the book.

Attendance: On time attendance is required. College attendance policies relating to 16 week classes allow for only 1 full absence before you are dropped from the class (reference 2014-2015 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 3 full 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. Late term-papers will not be accepted.

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 different types of fire detection & alarm systems
- Identify four different types of sprinkler systems and their components
- Identify the different types of fire extinguishers and their components

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 addresses the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers.

FIRE PROTECTION EQUIPMENT & SYSTEMS
CLASS MEETING SCHEDULE

<u>DATE</u>	<u>SUBJECT</u>	<u>READING ASSIGNMENT</u>
Aug. 27	Introduction, Registration, Etc.	
Sept. 3	Overview of Detection/Suppression Systems	Ch. 1
Sept. 10	Detection / Alarm Systems	Ch. 2
Sept. 17	Smoke Management Systems	Ch. 3
Sept. 24	Water Supply Systems	Ch. 4
Oct. 1	Fire Pumps	Ch. 5
Oct. 8	Review for Mid-Term Exam	
Oct. 15	Mid-Term Examination	
Oct. 22	Automatic Sprinkler Systems	Ch. 6
Oct. 29	Standpipe & Hose Systems	Ch. 7
Nov. 5	Special Extinguishing Systems	Ch. 8
Nov. 12	Portable Fire Extinguishers	Ch. 9
Nov. 19	Fire Pump Testing / Operations <u>TERM PAPERS DUE</u>	Appendices (Quiz 10)
Nov. 26	FIELD TRIP	
Dec. 3	Review for Final Exam. Review Term Papers.	
Dec. 10	FINAL EXAMINATION	

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

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FTEC 20, FIRE PROTECTION EQUIPMENT & SYSTEMS

TERM PAPER GUIDELINES

The term paper assigned for this class is a requirement that must be completed in order for you to successfully complete this class.

You will be asked to select an extinguishing system or detection system that is of interest to you. This may be any type that was either in your textbook or discussed in class.

You are to research the system to the best of your ability including any newspaper articles, professional journal articles, magazine articles, internet-related information, or archived information on VHS tapes, or CD / DVD's.

After you have gathered all the information, prepare a typewritten, college-level paper of at least 3 full pages in length.

Compare what they did with what you have learned in class from the textbook, lectures and videos.

Include a bibliography with all of the appropriate references and sources of information that you used for your report. A minimum of 3 separate references are required. Wikipedia references do not count.

Have fun, good luck and if you have any questions, please ask the instructor.

TERM PAPERS ARE DUE **WEDNESDAY, NOVEMBER 19TH, 2014**

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TERM PAPER FORMAT GUIDELINES

MARGINS: They should not be greater than 1 ½ inches. Exceptions can be made for the title page, introduction, conclusion and bibliography.

FONTS: They should be size **12** unless otherwise specified. Cover page and table of contents may be exceptions.

SPACING: Lines should be double-spaced.

TITLE PAGE: Center the title of the paper one-third from the top of the page.
Suggest size **16** font **bolded**.
Double-space and center your name below the title.
Double-space and center the course title below your name.

INTRODUCTION: This must be at least ½ page long. Describe your ‘game plan’.
Tell us why you have chosen this fire-related project and introduce us to what the main body of the paper is going to tell us.

CONTENT: This must be a minimum of **2** pages long, or longer if you received a lot of information.

CONCLUSION: This part must be at least ½ page long. Summarize what the project was about and describe how the project has assisted you towards your goal of becoming a firefighter.

PICTURES: Must be included. Pictures of your chosen system can be downloaded from the internet and placed in the back of you report. Other classes may require more photo documentation.

BIBLIOGRAPHY: Must have a minimum of **3** references. Your textbook may be used as one of them. Make sure the format of you references is proper – they differ for textbooks, magazines, internet, interviews etc.

BINDER / OUTER COVER: Optional. For some classes that have extensive photo documentation as part of the project, you may need a sleeve to hold the cd/dvd of your photos.

Please refer to the formal term paper formatting books/references that were suggested to you at the beginning of the course. The purpose of this document is only to give you insight as to what the instructor will be looking for in the term paper at the time of grading.

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FIRE PROTECTION EQUIPMENT & SYSTEMS

TERM PAPER SUBJECT REQUEST FORM

I, _____ request to write my term paper on the following extinguishing / detection system.

SYSTEM DESCRIPTION:

STUDENT CONTACT NUMBER: _____

APPROVED: _____

DATE: _____

**THIS FORM IS DUE BACK TO THE INSTRUCTOR NO
LATER THAN WEDNESDAY, SEPTEMBER 17, 2014**

