

John Jay College of Criminal Justice / City University of New York
899 Tenth Avenue, New York, NY, 10019
Department of Security, Fire, and Emergency Management
Division of Fire Science
FIS 106 Safety Engineering - Internet
[FIS106.99]
Fall 2012

Course Professor: Timothy J. Flannery
Office Hours: By Appointment
Course Hours: Online
Office Room Number: Online
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Course Web Site: <http://jjcweb.jjay.cuny.edu/tflan/index.htm>
Division of Fire
Science Web Site <http://jjcweb.jjay.cuny.edu/~firesci/>

COURSE DESCRIPTION

Course focuses on the work environment, its human, physical and environmental factors. Attention is given to achieving safety at emergency incidents, responding to/from incidents, and the fire station. The following topics will be discussed: hazard control; monitoring systems; accident analysis; promoting safety; OSHA; Workers' Compensation, fire prevention and fire safety

LEARNING OUTCOMES

The student shall:

- Describe the various liability and safety legislation on a federal and state level Explain the major components of workers' compensation laws
- Describe the roles and responsibilities of management and labor under OSHA
- List at least three [3] types of environments that can be hazardous to personnel
- Describe safety procedures at the following
 - Fire station
 - Fire emergencies
 - Medical or rescue emergencies
- Describe the development, management and evaluation of a safety program
- Describe the importance of information management in improving safety
- Describe the importance of an Incident Safety Officer at an emergency scene
- List at least three [3] emerging issues and trends in the safety field

COURSE PRE-REQUISITES OR CO-REQUISITES: None

REQUIRED TEXT

- Occupational Safety and Health in the Emergency Services, 2nd Ed., by James S. Angle, Delmar Publishing, Albany, NY, 2005
- Occupational Safety Management and Engineering, 5th Edition, by Willie Hammer & Dennis Price,

Prentice Hall, Upper Saddle River, NJ, 2001

- Additional material will be located at the course documents web site

GRADING SYSTEM / COURSE POLICIES

| | |
|-----------------------|------|
| QUIZZES | 20% |
| DISCUSSION QUESTIONS | 20% |
| WRITTEN ASSIGNMENTS | 20% |
| TERM PAPER PROSPECTUS | 10% |
| TERM PAPER | 30% |
| TOTAL | 100% |

Discussion Questions

For each course section the student will be required to respond to a discussion question(s) presented by the instructor regarding the readings from that course section or related current events. Access to pertinent information regarding a current event will be provided by the instructor.

Important information regarding discussion boards can be found at the Black Board course site under “Course Information”

Written Assignments

The written assignments will be an evaluation of various incidents, using the accident sequence format, and the general features related to hazard control, that resulted in the death or injury of firefighters while they were performing functions at emergency and non-emergency incidents.

The accident reports are available online in Portable Document Format [PDF]; a reader from Adobe Acrobat for this is available from Adobe's web site.

The general areas of the course documents are the following.

- Firefighter Training
- Roof Collapse
- Fire Apparatus Response
- Interior Structural Firefighting
- Firefighter Health & Physical Fitness

The response to these questions will be typed written and in one of the following formats - MS Word [.doc]; MS Word - Rich Text Format [.rtf]; WordPerfect [.wpd]. For any students using the program MS Works when you save your assignment, save them as one of the above formats, NOT AS A WORKS FORMAT [.WPS]. When submitting written assignments do so as an e-mail attachment.

Important information regarding written assignments and grading policies can be found at the Black Board course site under “Course Information”

Quizzes

At the end of each course section there will be a quiz. The quizzes will have approximately 20 questions in a true/false or multiple choice format. The student will have approximately 30 minutes to complete each quiz. All quizzes will be presented online at the John Jay online web site.

Attendance Policy

Attendance is based on your commitment to the course. I will track your attendance by watching the number of times you visit the site over the duration of the course.

College Grading Policy

| Grade | Explanation | Numerical Value |
|-------|----------------------|-----------------|
| A | Excellent | 4.0 |
| A- | | 3.7 |
| B+ | | 3.3 |
| B | Good | 3.0 |
| B- | | 2.7 |
| C+ | | 2.3 |
| C | Satisfactory | 2.0 |
| C- | | 1.7 |
| D+ | | 1.3 |
| D | Passing | 1.0 |
| D- | | 0.7 |
| F* | Failure/Unsuccessful | 0.0 |

Completion of course
P** Pass —
* An F is not erased when the course is taken again and passed.
** The P grade is not computed in the grade point average and is authorized only for:
1. Remedial and developmental courses
2. Non-remedial courses for which the P grade is designated in the course description in this Undergraduate Bulletin

TERM PAPER PROSPECTUS

A prospectus of the term paper will be due and will include the following:

- The term paper topic [choose from one of the topics below]
- The objective of the paper [what you hope to explain via the paper]
- Basic outline
- A list of potential references for the paper

TERM PAPER

The requirements for the term paper are as follows:

- The body of the report will be ten (10) pages, double-spaced and type written
- Term paper will be in MS Word [.doc], Corel WordPerfect [.wpd], or Rich Text Format [.rtf]

- The bibliographic (reference) form will follow the American Psychological Association (APA) format for references and Citations. {See Library Reference Desk for Additional Information on APA Format}
- The report will have a minimum of four (4) references in the bibliography.
- References may include: text books, magazine articles, newspaper articles, reference books (encyclopedia, dictionary) and electronic media (Internet material)
- Grading of the report will be based on content, grammar, and proper use of citations and reference using the A.P.A. format.
- For an example of what a term paper should look like to receive an "A" go to <http://web.jjay.cuny.edu/~tflan/documents/101docs/TermPaperExample.pdf>

ANY REFERENCES USED MUST BE CITED IN THE BODY OF THE TERM PAPER!!!!!!!!!!!!

Term Paper Assignments

The students will choose from one [1] of the topics below for their term paper.

Topics

- Accountability of personnel at an emergency incident..
- Emergency service personnel and the impact of stress and cardiac related problems on their jobs.
- Critical Incident Stress Debriefing and Post Traumatic Stress Syndrome and its impact on emergency service personnel.
- Providing a safe training environment for emergency service personnel.

COURSE OUTLINE

| DATES | WEEK | SUBJECT / READING MATERIAL |
|--------------|-------------|--|
| 8/27 | 1 | Course Introduction; Liabilities & Safety legislation |
| 9/3 | 2 | Workers Compensation |
| 9/10 | 3 | OSHA ; Standards & Codes; QUIZ # 1 |
| 9/17 | 4 | Management; Personnel; Safe Practices; Safety Programs |
| 9/24 | 5 | Hazard Control; Accident Investigations; Safety Analysis; Risk Management |
| 10/1 | 6 | Falling Objects; Mechanical Injuries; QUIZ # 2 |
| 10/8 | 7 | Heat and Temperature; Pressure Hazards |
| 10/15 | 8 | Electrical Hazards |
| 10/22 | 9 | Fire Suppression; QUIZ # 3 |
| 10/29 | 10 | Explosions; Toxic Materials |
| 11/5 | 11 | Confined Space; Radiation; Noise |
| 11/12 | 12 | Pre-Incident Safety; QUIZ # 4 |
| 11/26 | 13 | Fire Emergency Safety |
| 12/3 | 14 | Medical and Rescue Safety; Specialized Incidents |
| 12/10 | 15 | Post Incident Safety; Information Management; Emerging Trends and Issues; QUIZ # 5 |

COLLEGE WIDE POLICIES FOR UNDERGRADUATE COURSES

Incomplete Grade Policy

An Incomplete Grade may be given only to those students who would pass the course if they were to satisfactorily complete course requirements. It is within the discretion of the faculty member as to whether or not to give the grade of Incomplete.

If a faculty member decides to give an Incomplete Grade, he or she completes an Incomplete Grade drop-down form that will appear on the grading screen when the faculty member assigns the INC grade online. The faculty member will then provide the following information: the grade the student has earned so far; the assignment(s) that are missing; and the percentage of the final grade that the missing assignment(s) represents for this purpose.

If the course takes place during the fall semester or winter session, then the incomplete work is due by the student no later than the end of the third week of the following spring semester. If the course takes place during the spring semester or summer session, then the incomplete work is due no later than the end of the third week of the following fall semester. It is within the discretion of the faculty member to extend this deadline under extraordinary circumstances.

When completing the online Incomplete Grade Form, the faculty member agrees to grade the student's outstanding coursework as specified on the form and to submit the student's grade for the course any time from the date the student submits the completed work until the end of that fall or spring semester. This policy should be included on undergraduate course syllabi. If the student does not successfully complete the missing work, the faculty member may change the grade to a letter grade. If the faculty member does not submit a change of grade, the Incomplete Grade automatically becomes the grade of "FIN" at the end of that semester.

Extra Work During Semester

Any extra credit coursework opportunities during the semester for a student to improve his or her grade must be made available to all students at the same time. Furthermore, there is no obligation on the part of any instructor to offer extra credit work in any course. The term "extra credit work" refers to optional work that may be assigned by the instructor to all students in addition to the required work for the course that all students must complete. It is distinguished from substitute assignments or substitute work that may be assigned by the instructor to individual students, such as make-up assignments to accommodate emergencies or to accommodate the special circumstances of individual students.

American with Disabilities Act (ADA) Policies

"Qualified students with disabilities will be provided reasonable academic accommodations if determined eligible by the Office of Accessibility Services (OAS). Prior to granting disability accommodations in this course, the instructor must receive written verification of a student's eligibility from the OAS which is located at 1233N (212-237-8144). It is the student's responsibility to initiate contact with the office and to follow the established procedures for having the accommodation notice sent to the instructor."

COLLEGE POLICY ON PLAGIARISM

Plagiarism is the representation of someone else's ideas, words, or artistic, scientific, or technical work as one's own creation. Using the ideas or work of another is permissible only when the original author is identified. Paraphrasing and summarizing, as well as direct quotations, require citations to the original source.

Plagiarism may be intentional or unintentional. Lack of dishonest intent does not necessarily absolve a student of responsibility for plagiarism.

It is the student's responsibility to recognize the difference between statements that are common knowledge

(which do not require documentation) and restatements of the ideas of others. Paraphrase and summary are acceptable forms of restatement, as long as the source is cited. Direct quotation can only be used, if, in addition to citing the source, the quoted material is placed within quotation marks or in blocked format in accordance with the appropriate style manual. All paraphrases, summaries, and quotations must be immediately followed by the appropriate citation and must be clearly distinguished from one's own creation. Students who are unsure how and when to provide documentation are advised to consult their instructors. The Library has free guides to help students with documentation

Plagiarism detection software - the College subscribes to Turnitin.com and Blackboard has a similar module called SafeAssign. If you will be using any plagiarism detection software in your course, you must state it on the syllabus.

COLLEGE POLICY ON CHEATING

Students are prohibited from using books, notes, and other reference materials during examinations except as specifically authorized by the instructor. Students may not copy other students' examination papers, have others take examinations for them, substitute examination booklets, submit papers written by others, or engage in other forms of academic dishonesty. An instructor who determines that such violation has occurred may follow the options stated below. Similarly, a student who has been penalized by an instructor has the same rights of appeal as in a situation involving an allegation of plagiarism.