	JOLIET JUNIOR COLLEGE	Health and Public Joliet Junior Colle 1215 Houbolt Roc Joliet IL 60431-84 Dept Office (815) Dept Fax (815) 28 SPRING 201 SYLLABUS	ege ad 938 280-2356 30-2767
Class:	FSCI 105 060 – Fire Protection Systems	Meeting Day:	Tuesdays 9:00 AM – 11:30 AM
Instructor:	Clint Johnson – <u>cljohnso@jjc.edu</u>	Room:	U-1003

Office Location: U-1002L Office Telephone: 815-280-6769 Cell: 708-321-0277 Office Hours: By appointment

I. Course Description: A study of the required standards for water supplies, protection systems, automatic sprinklers, and extinguishing systems including analysis of various automatic signaling and detection systems.

Credit and Contact Hours

- Credit Hours: 3
- Lecture/Demonstration: 3
- Lab/Studio/Clinical: 0
- II. Prerequisites: Placement into ENG 101 or minimum grade of "C" in one of the following: ENG 021 and ENG 099; or ENG 022 and ENG 099 or the EAP course sequence ENG 079 and ENG 089, or ENG 096; and placement into MATH 094 or minimum grade "C" in MATH 090. "C" or better in FSCI 101 and FSCI 102.

III. Text Books, Reference material, Supplies, and Supplementary Materials:

- Required Textbooks/Reading list
 - Fire Detection and Suppression Systems, 4th Edition Textbook and Course Workbook Package International Fire Service Training Association (IFSTA)
- Supplementary texts/materials
 - None
- Other resources utilized
 - NFPA, SFPE & ICC publications, Internet resources

Methods of Instruction:

Lecture: Straight lecture Other: Video, discussions, demonstrations, various classroom activities

Student Learning Outcomes:

After completing this course, the student shall be able to understand and summarize:

- the history, types, and benefits of fire detection and suppression systems
- the characteristics of fire detection and alarm systems
- the principles and characteristics of smoke management systems

- the operation of water supply systems
- the types and operation of fire pumps used as part of a fire protection system
- the principles and characteristics of automatic sprinkler systems
- the principles and characteristics of standpipe and hose systems
- the operation of special extinguishing systems
- the characteristics and operating principles of different types of portable fire extinguishers

IV. General Education Student Learning:

- Students will demonstrate organized and coherent communication, both oral and written.
- Students will demonstrate an ability to think critically and analytically.

V. Graded Assignments and Policies:

Graded Assignments:

Grading Scale:		Quizzes, Homework, Workbook & Exams	
A =	100% - 93%	Final Exam	30 % of Final Grade
B =	92% - 86%	Mid-Term Exam	25 % of Final Grade
D = C =	85% - 78%	Chapter Quizzes, Homework & Workbook	25 % of Final Grade
D =	77% – 70%	Final Project	20 % of Final Grade
F =	69% & Below	Total	100% of Final Grade

Final Exam, Mid-Term, Major Tests and Quizzes:

The mid-term and final exam will be 100 to 150 questions and may consist of multiple choice, true and false, and essay questions. There will be 9 quizzes that will be approximately 25 questions and may consist of multiple choice, true and false, and essay questions.

Late work submission policy:

All assignments must be completed prior to coming to class. The reading assignments will be discussed on the class dates listed on the Topical Outline/Schedule. Assignments submitted late will be graded down automatically by 10% per day up until day five. After five (5) days you will receive a 0% for that assignment.

Extra-credit Policy:

There is no extra credit

Academic Honor Code:

The objective of the academic honor code is to sustain a learning-centered environment in which all students are expected to demonstrate integrity, honor, and responsibility, and recognize the importance of being accountable for one's academic behavior.

Academic Dishonesty Policy:

Students may be subject to disciplinary proceedings resulting in an academic penalty or disciplinary penalty for academic dishonesty. Academic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

Certification upon completion of class: NFA

College Statement about grades of "F" and withdrawal from class:

- Students may withdraw from a course by processing an add/drop form during regular office hours through the Registration and Records Office at Main Campus or Romeoville Campus, or by phone at 815-744-2200. Please note the withdrawal dates listed on your bill or student schedule. Every course has its own withdrawal date. Failure to withdraw properly may result in a failing grade of "F" in the course.
- At any time prior to the deadline dates established, an instructor may dismiss a student from class because of poor attendance, poor academic performance or inappropriate academic behavior, such as, but not limited to, cheating or plagiarism. It is the student's responsibility to drop the course through Registration and Records.

VI. Classroom Policies and Procedures:

A. General Information

Course Handouts:

All PowerPoint handouts are located on iCampus in your Canvas course site on the JJC website. If a student does not have internet access, computer labs are available on the second floor of the "U" building where the student can print out the handouts. PowerPoint handouts will not be distributed in class but are required.

Attendance Policy:

Students are allowed to miss a maximum of 2 classes. UPON THE 3rd CLASS MISSED YOU WILL NO LONGER BE ELIGIBLE TO PASS THE CLASS AND WILL RECEIVE A FAILING GRADE.

*Due to the comprehensive nature of the topics involved in these educational programs, your attendance is MANDATORY. If you are going to be absent from a class, you are to contact your lead instructor prior to beginning of class, using the contact information provided. Email to my JJC address is preferred. It is the student's responsibility to complete the work that was missed during any absence and obtain any handouts.

Make-up Policy:

If you are absent due to a reported personal and/or family emergency on the day a class, quiz, or examination is given, you must make up the scheduled class material, quiz, or exam before the next scheduled class day that you will be returning. You must e-mail the course instructor prior to the next class day to schedule a time. The final examination will be given only on the day and time listed on the course calendar.

Tardiness:

Tardiness will not be tolerated. Each class will start promptly at the time listed on your registration sheet. Tardy will be anything after five minutes after the class has started. Two days tardy will count as one unexcused absence. Arriving after class begins or leaving prior to the end of class constitutes a tardy. The student will be held accountable for any material they have missed.

Smoking:

NO Smoking or chewing tobacco is allowed on any educational facility per Illinois State law. This includes all of Joliet Junior College campus and any fire stations or on field trips the class may take.

Dress Code:

You will be required to dress appropriately during the classroom portions of the course. Casual dress is acceptable, if you are CLEAN and WELL GROOMED. NO short shorts, tank tops, midriff tops, bare midriff or back, plunging necklines, or low pants with underwear showing. Hats may not be worn at any time in the classroom (or anywhere the class is taking place). Students in violation of the dress code policy will be asked to leave class and it will count as one absence.

Mobile Technology: Cell Phones/Computer/wrist devices/IPODS/MP3s:

Use of any technology in the classroom must be approved by the instructor and be utilized for classroom work only. The electronic device will not become a distraction to you or surrounding students at any time. Any unauthorized use of any electronic technology will be grounds for dismissal from the course.

General Classroom Policies:

Students will not be allowed to eat meals in the classroom. Non-alcoholic drinks will be allowed. Any student found writing on the classroom desks or defacing JJC property will be immediately dismissed from the program. Sleeping during the program is not allowed. If a student is found sleeping, the instructor will warn them that the next time they are caught sleeping during class it will count as one unexcused absence. Any future sleeping in class after the second infraction will be grounds for dismissal. Talking to fellow students during lecture time is disruptive to the class and will not be tolerated. Consistent class disruption will result in dismissal from the program.

Program Withdrawal:

If a student fails to meet the requirements of the program and is notified by the instructor that they will receive a failing grade, it is the student's responsibility to formally drop the course by contacting registration. The instructor will not notify registration. Refund dates and drop dates are listed on the student's registration and the course calendar.

Inclement Weather:

If Joliet Junior College determines that classes will not be held for any reason, including inclement weather, the closure of the college will be broadcast on WJOL 1340 and the JJC website. The JJC website will list closings by 5 am for day classes and 3 pm for evening classes. Do not call the instructors at JJC with cancellation inquiries. Closing of the college will also be posted on the JJC website (jjc.edu).

Emergency Procedures:

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering

emergency. The Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility. See attached Semester Safety sheet for more detail.

Dismissal from the Program:

Students may be dismissed from the training program if any of the following occur:

- 1. More than 2 absences are recorded, regardless of grades
- 2. Professional conduct standards or JJC Code of Conduct standards are violated
- 3. Dishonesty on any quiz, examination or required course work
- 4. Appears for class under the influence of any decision altering substance
- 5. Defacing or theft of JJC property including quizzes, tests, or student answer sheets
- 6. Failure to follow classroom policies, disruptive behavior, unprofessional behavior, or sexual harassment
- 7. Inappropriate behavior in the classroom.

Note: All circumstances will be evaluated on an individual basis by the instructor and the Fire Science/EMS Coordinators.

B. College Statement about grades of "F" and withdrawal from class:

Students may withdraw from a course by processing an add/drop form during regular office hours through the Registration and Records Office at Main Campus or Romeoville Campus, or by phone at 815-744-2200. Please note the withdrawal dates listed on your bill or student schedule. Every course has its own withdrawal date. Failure to withdraw properly may result in a failing grade of "F" in the course.

At any time prior to the deadline dates established, an instructor may dismiss a student from class because of poor attendance, poor academic performance or inappropriate academic behavior, such as, but not limited to, cheating or plagiarism. It is the student's responsibility to formally drop the course through registration.

Intellectual Property:

Students own and hold the copyright to the original work they produce in class. It is a widely accepted practice to use student work as part of the college's internal self-evaluation, assessment procedures, or other efforts to improve teaching and learning and in promoting programs and recruiting new students. If you do not wish your work to be used in this manner, please inform the instructor.

Student Code of Conduct:

Each student is responsible for reading and adhering to the Student Code of Conduct as stated in the college catalog.

Sexual Harassment:

Joliet Junior College seeks to foster a community environment in which all members respect and trust each other. In a community in which persons respect and trust each

other, there is no place for sexual harassment. JJC has a strong policy prohibiting the sexual harassment of one member of the college community by another. See Catalog or Student Handbook.

Student Support: http://jjc.edu/services-for-students/pages/default.aspx

- a. Disability Services: <u>http://www.jjc.edu/disability-services/Pages/default.aspx</u>. Student Accommodations and Resources (StAR): *If you need disability-related accommodations, specialized tutoring, or assistive technology in this class, if you have emergency medical information you wish to share with me, or if you need special arrangements in case the building must be evacuated, please inform me immediately. Please see me privately after class or at my office.* New students should request accommodations and support by scheduling an appointment with the Student Accommodations and Resources (StAR) Office, Campus Center 1125, (815) 280-2230.
- b. Tutoring: <u>http://www.jjc.edu/tlc/Pages/default.aspx</u>
- c. Counseling and Advising: : <u>http://www.jjc.edu/counseling-advising/Pages/default.aspx</u>
- d. Academic Resources: <u>http://www.jjc.edu/academic-resources/Pages/default.aspx</u>
- e. Support Programs: <u>http://www.jjc.edu/support-programs-services/Pages/default.aspx</u>
- f. Technology Support: <u>http://jjc.edu/services-for-students/Pages/technology-</u> <u>support.aspx</u>

StAR Services Testing through Academic Skills Center

StAR services will only be available for students who have a documented disability. Students will no longer provide the faculty with a "Pink Sheet" testing accommodation form but students must present the "accommodation letter" to faculty. If eligible for StAR services, the student and instructor will decide the best way to communicate the student's testing needs for each test/quiz. As soon as a student discloses to their instructor that they need testing accommodations, all tests/quizzes must be available with those accommodations. Initial notification of accommodation needs must be made to the faculty member in each course at least one week prior to the initial assessment in that course.

Syllabus Modification:

The instructor reserves the right to make changes to the course syllabus during the semester. Students will be notified of syllabus changes through a Canvas course announcement and will receive an email with the changed syllabus attached. Any changes in the syllabus will take effect upon receipt of the new syllabus.

Homework Assignments and Policy

A. Assignments

Each week a homework assignment will be due and will be reviewed during the class period. Students will be prepared to explain their assignment to the class, and how it relates to the course.

B. Description

Students will research current topics and events from the past 12 months which are related to fire protection (FP) systems. The chosen subject can be about the presence and operation of a FP system, the results of the lack of a system, an industry article about systems, etc. Students will type a 1-3 paragraph, double-spaced paper, no more than one page – in their own words – on their chosen story or article. Merely quoting an article is not acceptable. Students will include their own thoughts and opinions about the information in the chosen article. They will be prepared to discuss it in class, and will turn their paper in during the class period. Each paper must include the following information – see the sample paper (link on course home page) for information to be included, and for proper format.

- 1. Student name
- 2. Course # and section # identification
- 3. Date of submittal
- 4. Week # of submittal
- 5. The specific URL or web address of the source material, or specific identifying information about a print publication, such that the article can be easily located
- 6. 1-3 paragraphs about the article, no more than one page

Each week the student must choose a different topic or type of system for their report, so that from week to week a student is not reporting on the same subject matter.

C. Grading

Homework assignments, weekly quizzes, and course workbooks together will comprise 25% of your final grade. Each homework assignment is worth 15 points, and will be graded on:

- 1. Understanding of FP systems concepts and how the chosen story relates to this course
- 2. Inclusion of personal thoughts and opinions about the article
- 3. Following instructions, proper format, legibility, spelling, grammar, proper terminology

D. Resources

Many online and print resources are available for use. Some resources that you may use are listed here; feel free to utilize other relevant sources as well, including local & national news if appropriate.

Fire Engineering	http://www.fireengineering.com/index.html
NFPA Today	http://nfpatoday.blog.nfpa.org/
Firefighter Close Calls - includes The Secret List	http://www.firefighterclosecalls.com/
National Fallen Firefighters Foundation	http://www.firehero.org/
NFPA FF input to codes program	http://www.nfpa.org/standardsinaction
Firefighter Nation	http://www.firefighternation.com/
Firefighter Fatality Investigation and Prevention	http://www.cdc.gov/niosh/fire/
Program	
NFPA Journal - bi-monthly publication, find	http://www.nfpa.org/newsandpublications/nfpa-
current edition - also has mobile app	journal/2015/july-august-2015
USFA/FEMA Daily Ops Briefing & other info	https://www.usfa.fema.gov/operations/
Illinois Fire Safety Alliance	http://www.ifsa.org/
NFPA Fire Sprinkler Initiative News	http://sprinkler.blog.nfpa.org/
Sprinkler Saves reporting	www.sprinklersaves.com
US Fire Administration / FEMA	http://www.usfa.fema.gov/

Workbook

A. General Information

The workbook listed in the required textbook section of this syllabus will be used this semester.

B. Description

The workbook sections relating to each chapter will be used as a study aid during the semester. Each chapter contains sections titled: Terms, True/False, Matching, Short Answer, Multiple Choice, and Crossword. The completion of these sections for each textbook chapter is required. Students who complete the workbook assignments consistently earn better grades.

C. Due Dates and Grading

Workbooks will be graded twice during the semester, and will be counted as two quiz grades, each worth 50 points. Workbooks are to be submitted for grading on the following class days: **Midterm Exam (Workbook Chapters 1-5)** and **Final Exam (Workbook Chapters 6-9)**. Workbooks will be reviewed and graded during the exam, and returned to students the same day. Workbooks will be graded on completion, accuracy, correct use of terms, spelling, and grammar.

SEMESTER SAFETY

(January 2017)

At Joliet Junior College the safety of our faculty, staff, students and guests is our highest priority. The JJC Campus Police Department and the Environmental Health & Safety Department work together closely to make sure that your experience at JJC is as safe as possible. It is important to remember that as members of the JJC community, you too play a major part in making sure that this is a safe campus. A brief review of the information included in this safety bulletin could make the difference between your survival in a critical incident or becoming a victim. We ask that you take a few minutes at the beginning of each semester to review the information with your students or staff members.

Important Phone Numbers:

CAMPUS POLICE: <u>Emergency:</u> From any College phone: 2911 or 911 (DO NOT DIAL 9 FIRST) From any phone: 911 (DO NOT DIAL 9 FIRST) or 815-280-2911

Note: 911 will reach local police/fire who will relay the information to JJC Police. (DO NOT DIAL 9911)

<u>Non-Emergency:</u> 815-280-2234

ENVIRONMENTAL HEALTH & SAFETY: For unsafe situations Non-Emergency Only: 815-280-2384

Please remember that safety is everyone's responsibility. If you see a suspicious, criminal or unsafe situation, please notify the appropriate department listed above.

Safety Systems in Place:

- **AEDs:** There are more than 30 Automatic External Defibrillators strategically located on all campuses. (AED Training is available through the EHS Department at ext. 2384)
- **Cameras:** JJC has more than 600 cameras strategically located both inside and outside all campuses.
- **Emergency Phones:** There are 100 emergency phones located on our campuses. These phones provide a direct link to Campus Police when activated. The exterior phones are blue light phones that flash when activated.
- Emergency Response Flip Charts and Evacuation Maps: These items are posted in each classroom and office, as well as many public areas. The handbooks provide a quick reference guide for twelve different types of emergency situations. The evacuation maps provide the quickest route for building evacuation or the nearest severe weather shelter. If these items are missing in your area, please contact EHS Dept. at ext. 2384 for replacement.
- **Fire Alarm System:** All campuses are equipped with state of the art fire detection and notification systems. The fire alarm consists of a continuous sounding horn accompanied by a flashing strobe light. This warning is not accompanied by an announcement. If alarm is sounding, evacuate immediately. Additionally more than 600 **Fire Extinguishers** are located throughout the campuses.
- **First Aid Kits:** Kits are located throughout the College. (First Aid/CPR training is available through the EHS Dept, at ext. 2384).

- **PA System:** A PA system is available on the Main, City Center and Romeoville campuses. In the event of an emergency other than a fire, this system will be used to provide you with vital information regarding how to respond to the particular emergency.
- Emergency Notification System (RAVE): All student and staff are automatically included in the JJC Emergency Notification System. That means you will receive texts, voice and e-mail notifications of emergencies and school closings on any phone number or e-mail address included on your employee or student record. You may opt to add or delete numbers by going to the JJC Homepage, and logging into the "RAVE" link by using your JJC login and password. You can then click on "Manage Profile" to make corrections.
- Sector Leaders: JJC has more than 70 volunteer Sector Leader who assist with evacuations and other emergencies. If you are interested in joining the Sector Leader program, contact the EHS Manager at 815-280-2384.
- Severe Weather: JJC is a National Weather Service Weather Ready Campus. Severe weather shelters are designated throughout campus with a blue & white "severe Weather Shelter" sign with a tornado logo. Their locations are also on the evacuation maps located throughout campus. Tornado Watches and Warnings will also be announce via the PA system.
- **Thorguard Lightning Prediction System:** JJC now has the Thorguard Lightning Prediction System on campus. In the event that conditions are right for lightning within a 2 mile radius, the system will activate a warning horn along with a flashing amber light on the four Thorguard units located in South Lot 7, North Lot 8, the Greenhouse and on G Building. When this system is activated, all outdoor events will be suspended until the threat has passed.

JOLIET JUNIOR COLLEGE		Health and Public Services Joliet Junior College 1215 Houbolt Road Joliet IL 60431-8938 Dept Office (815) 280-2356 Dept Fax (815) 280-2767 Final Research Paper Instructions		
Class:	FSCI 105 060 – Fire Protection Systems	Due Date:	May 9, 2017	
Instructor:	Clint Johnson – <u>cljohnso@jjc.edu</u>	Room:	U-1003	

For your final research paper project, answer the following question and follow the instructions below.

There have been numerous changes in the technology of fire protection systems over the past 50 years. What are some of these changes, and how have they affected civilian and firefighter safety?

- 1. To answer this question, you will complete a typed, four-page (excluding required cover and reference pages), single-sided, double-spaced paper, written using the APA style. Provide a cover page using the format on the next page, and number each page. Your cover page will be Page 1.
- 2. Your paper is to include the following sections:
 - a. Introduction define the topic, discuss the purpose and scope of your paper, provide a general description of the sources used (not by specific title, but, by category of publication, where most any reader can find the sources, etc), and describe what was concluded and/or recommended.
 - b. Review of the literature this is where you provide information. Do not editorialize, rationalize, or make judgments about the material. Just report (review) what you found in the literature, using multiple resources.
 - c. Conclusion and/or recommendation use your thoughts and ideas on the subject explored, combined with what you have learned from your sources, to illustrate any comparisons and/or make recommendations. Your writing must be professional in nature, must not ramble or generalize, must address the topic, and must provide specifics.
 - d. A References page use proper APA style and format that provides a full reference for each work cited in your text.
- 3. You will be graded on your paper's relevance to the topic of fire protection systems, your understanding of the concepts researched, your ability to convey the information clearly and understandably, and on spelling, grammar, usage, and following instructions. The maximum score will be 100 points. This assignment is worth 20% of your course grade.
- 4. Your paper is due at the May 9, 2017 class session.

Final research paper cover page example:

Page 1

Title of Your Paper

Your Name

Joliet Junior College

Street Address City, State, Zip Code Phone Number E-mail address

Course Number and Title Instructor's Name Assignment Name Date Submitted

Topical Outline and Schedule:

F	<u>SCI 105 060</u>	<u>Spring 2017</u>	<u>Tuesdays, 0900-1130</u>	<u>Room U-1003</u>
SESSION #	TUESDAY	Unit, Topic,	Class Activity (approximate tim	e allotment, breaks included)
1	January 10	Introduction	n; Policies, procedures; Systems	s information media (150 min)
2	January 17		review – Week 2 (20 min)	
2	January 17	Chapter 1 -	Overview of fire detection and	suppression systems (130 min)
		Quiz on Ch	apter 1 (20 min)	
3	January 24	Homework	review – Week 3 (20 min)	
	Chapter 2 – Fire detection and alarm systems, Part 1 (110 min)			ms, Part 1 (110 min)
4	January 31 • Homework review – Week 4 (20 min)			
-	oununj er		- Fire detection and alarm syste	ms, Part 2 (130 min)
_		-	apter 2 (20 min)	
5	February 7		review – Week 5 (20 min)	
			- Smoke management systems (1	10 min)
	F.L	_	apter 3 (20 min)	
6	February 14		review – Week 6 (20 min)	
	Eshumour 21		- Water supply (110 min)	
	February 21		nstructor In-Service Day – no d	aytime classes
7	February 28	•	apter 4 (20 min) review – Week 7 (20 min)	
7	repruary 20		- Fire pumps (110 min)	
		•	apter 5 (20 min)	
8	March 7	-	review – Week 8 (20 min)	
Ū			mid-term exam (110 min)	
	March 14		bpring Break	
			review – Week 9 (20 min)	
9	March 21		due – Chapters 1-5	
			xam on Chapters 1-5 (130 min)	
	March 28		nid-term exam results (20 min)	
10		Homework	review – Week 10 (20 min)	
		Chapter 6 -	- Automatic sprinkler systems, l	Part 1 (110 min)
11	April 4	Homework	review – Week 11 (20 min)	
11	April 4	Chapter 6 -	- Automatic sprinkler systems, l	Part 2 (130 min)
		Quiz on Ch	apter 6 (20 min)	
12	April 11		review – Week 12 (20 min)	
			- Standpipe and hose systems (1	10 min)
		-	apter 7 (20 min)	
13	April 18		review – Week 13 (20 min)	
			- Special extinguishing systems	(110 min)
		_	apter 8 (20 min)	
14	April 25		review – Week 14 (20 min)	
			- Portable extinguishers (110 mi	n)
	M 3		apter 9 (20 min)	
15	May 2		review – Week 15 (20 min)	
			final exam (110 min)	
16	Mov 0		due – Chapters 6-9	
16	May 9		ct paper due	
		Final exam	on Chapters 1-9 (150 min)	

		SPRING 2017 Syllabus Acknowledgement and Contact Information	
JOLIET JUNIOR COLLEGE		Health and Public Services Joliet Junior College 1215 Houbolt Road Joliet IL 60431-8938 Dept Office (815) 280-2356 Dept Fax (815) 280-2767	

I have read and understand the course syllabus as presented in class and in paper form, including the course requirements and guidelines necessary for me to successfully complete this class. Please print below:

Student Name:	_
Contact Phone:	
Emergency Contact:	Relationship:
Phone Number:	
Alternate Email:	
Date:	

Signature: _____

Reminder

Please remember to check iCampus on the JJC Website and your JJC email account daily. You may also have your JJC email forwarded to your personal email account while you are registered at JJC. All email transactions from Joliet Junior College, Professors, and Program Coordinator will utilize your issued JJC email address.