

FS 76 *Building Construction for Fire Protection*
Section 4031, Spring 2018 Course Syllabus

<https://santarosajc.instructure.com/login/canvas>

Course Description

This course represents one of the six core courses required for an Associate's Degree in Fire Technology that follows the Fire and Emergency Services Higher Education (FESHE) model. The course identifies the different types of building construction, design and their effect on structural firefighting. It also studies the components of buildings as they relate to fire safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires. The course also studies the development and evolution of building and fire codes in relationship to past fires in residential, commercial, and industrial occupancies. There is a minimum of one site visit required for both classroom and online offering. (Grade Only)

Student Learning Outcomes

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

1. Identify major elements of construction and design that affect structural firefighting.
2. Identify specific building fire codes that relate to structural firefighting.

Class Meetings

All material and activities be offered asynchronously, meaning the students can access them anytime.

Instructor Contact

Darren M. Hall - Fire Captain

CANVAS INBOX: Please use the "Inbox" and Select FIRE76 Hall, D for our primary communication. This is the PREFERRED method for communication to ensure any class issues are immediately resolved.

Email: dhall2@santarosa.edu or nadocaptain@me.com

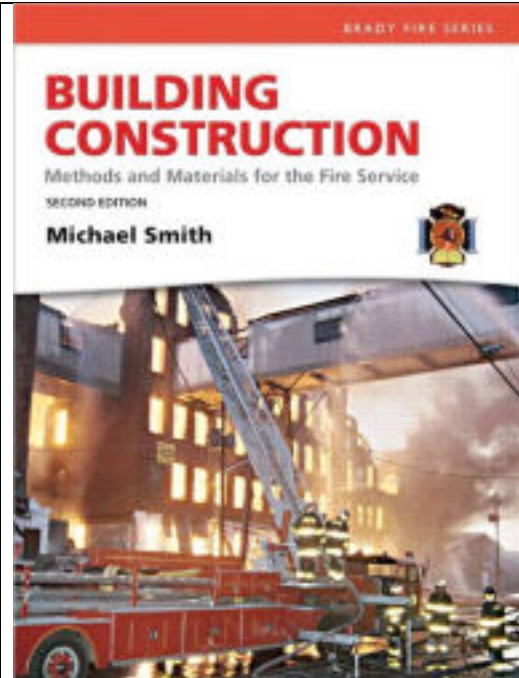
Phone: (619) 794-3115

Office Hours: Phone, Zoom.us and FaceTime. Please email to set an appointment. I respond to emails within 24 hours.

Textbook

Building Construction Methods and Materials for the Fire Service, Second Edition, *Author:* Smith, Michael, *Publisher:* Brady, ISBN 0137083785

You can locate and order textbooks online via the [SRJC Bookstore](#). If your class is based out of Petaluma, your books will be listed on the [Petaluma Bookstore](#) web site.



Required Software

- [Adobe Reader](#)
- [QuickTime Player](#)
- [Flash Player](#)

Important Dates

Day Class Begins: **January 17, 2018**

Day Class Ends: **May 20, 2018**

Last Day to Add without instructor's approval: **January 21, 2018**

Last Day to Drop with refund: **January 28, 2018**

Last Day to Add with instructor's approval: **February 4, 2018**

Last Day to Drop without a 'W' symbol: **February 4, 2018**

Last Day to Opt for Pass/No Pass: -----

Last Day to Drop with a 'W' symbol: **April 22, 2018**

Last day of class: **May 20, 2018**

Dropping the Class

If you decide to discontinue this course, it is your responsibility to officially drop it. A student may be dropped from any class when that

student's absences exceed ten percent (10%) of the total hours of class time. It is strongly advised that if you need to miss more than one class/homework deadline in a row that you contact the instructor to avoid being dropped from the class.

Students who fail to attend the first class meeting may be dropped by the instructor. For classes that meet online, students who fail to log on and initiate participation by 11:59 p.m. Pacific Time of the first day of the class may be dropped by the instructor. The start date for full semester online classes is the official first day of the semester; for short-term classes, the first day will be specified in the schedule of classes.

Attendance

For face-to-face courses, students who fail to attend the first class meeting may be dropped by the instructor. For classes that meet online, students who fail to log on and initiate participation by 11:59 p.m. Pacific Time of the first day of the class may be dropped by the instructor.

Instructor Announcements and Q&A Forum

The instructor will post announcements on the “Instructor Announcements” page in Canvas throughout the semester. Canvas notifies students according to their preferred Notification Preferences. A “Q&A Forum” is also available as a pinned Discussion to ask for assistance of your classmates or of the instructor.

Grading Policy

Click the “Grades” link in Canvas to keep track of your grades. I grade weekly (usually Mondays) and post grades and comments in the Canvas gradebook. Grades will be assigned as follows:

Assignment	Points	Scale	Grade	Percentage
Online Discussion (11)	1100	2700-3000	A	90%
Research Paper*	200	2400-2699	B	80%
Quizzes (10)	1000	2100-2399	C	70%
Mid-term	100	1800-2099	D	60%
Final	200	1799 or less	F	59% or less
Case Study Presentation	100			
Video Size Up Assignment	100			
Two Class Blogs	200			
Total Points:	3000			

Late Policy

All quizzes, the mid-term, final exam, discussions, case study group assignment and term paper assignments are due at midnight PST on the due date. A late submission will receive a 20% penalty. Submissions more than one week late are not accepted without prior arrangement.

Case Study

Students are required to review an incident where a Firefighter was killed due to a building collapse. Incident information will be provided from a list of real incidents throughout the United States from the US Fire Administration Website. Students may work in small groups or as individuals to research the incident via Canvas.

Case Study Building Collapse Directions:

Review the link provided on the assignments page for an overview of Firefighter Fatalities in the United States. Review at least three incidents where a firefighter was killed in the line of duty due to a building collapse. Choose one of these incidents and answer the provided questions in a Microsoft Power Point file. (Note: must

include photos from the case study a photo and sketch of the similar building.)

Presentations will be graded on depth of research, suggestions, knowledge and recommendations. See the Grading Rubric for the *Case Study Assignment* on the assignment page. This is a REQUIRED assignment. Students who fail to complete the assignment FAIL the entire course.

Research Paper

Students ARE REQUIRED to complete a research paper of no less than FOUR double-spaced, 12pt font pages in length. (Students who elect not to write a term paper will receive an F for the course.) The research paper will be on a topic from a list provided on the assignment page. The paper **must** include a works cited. MLA is the suggested format utilizing a minimum of three references. Two references may be from the Internet. The Research Paper must be submitted through Canvas (Assignment Link). Grades for late research papers will be lowered by 20% unless arrangements are made prior to the deadline. The due date is provided on the ***Calendar of Events***. See the *Grading Rubric for the Research Paper* on the assignment page. This is a REQUIRED assignment. Students who fail to complete the assignment FAIL the entire course.

Quizzes and Exams

There are 10 online quizzes an online midterm and final exam online. The material comes from the textbook, class lectures (Power Points) and supplemental materials. If any quiz or exam is missed, a zero will be recorded as the score. It is your responsibility to take the exams by the due date.

Online Discussion Attendance

Networking is extremely important for firefighters. More than likely, each of you will only know each other by email addresses. It is my goal as the instructor to encourage you to go to the Discussion Board associated with the class for in depth discussions amongst

yourselves. The instructor plans on overseeing the discussions and addressing comments or questions. **This is a mandatory requirement for the class.** There are posted questions you are expected to answer, as well as offering feedback to other student answers within the class. The Instructor will place several posts to discussions, which may be tested on. Make sure to review all instructor posts within the discussions. There are eleven discussion questions that will be graded based upon your participation. (Total points = 1100). See due dates on the Calendar of Events located on the Course Information page.

DIRECTIONS for Discussion Success:

You must participate in the discussion the week of the discussion according to the calendar of events for full credit. Students must provide an **initial post 48 hours (Friday Night by Midnight)** prior to the due date of the discussion and provide a minimum of two posts to other student's initial posts. Both the initial posts and additional posts must be in at least 100 words or more.

I leave all discussions open during the class for students who wish to continue the dialogue, however the discussions are graded shortly after the week they are due according to the calendar of events.

Class Blogs

Two Blogs have been added to the class to promote student connections.

The first Blog will be available the first 8 weeks and focuses on student's plans for getting hired with input from the students in the class who are working for a fire department already and additional instructor input.

The second Blog will be specific to current events (Significant fires with Building Construction issues contributing to the fire) Example Ghost Ship Fire in Oakland and the Highrise Fire in London).

Standards of Conduct

Students who register in SRJC classes are required to abide by the SRJC Student Conduct Standards. Violation of the Standards is basis for referral to the Vice President of Student Services or dismissal from class or from the College. See the [Student Code of Conduct page](#).

Collaborating on or copying of tests or homework in whole or in part will be considered an act of academic dishonesty and result in a grade of 0 for that test or assignment. Students are encouraged to share information and ideas, but not their work. See these links on Plagiarism:

[SRJC Writing Center Lessons on avoiding plagiarism](#)

[SRJC's statement on Academic Integrity](#)

Special Needs

Every effort is made to conform to accessibility standards for all instructor-created materials. Students should contact their instructor as soon as possible if they find that they cannot access any course materials. Students with disabilities who believe they need accommodations in this class are encouraged to contact Disability Resources (527-4278).