



South Portland, Maine 04106
Fire Science Department

Title: Fire 1 & 2

Catalog Number: FIRE 106 FL

Credit Hours: 6 (2 acad. + 4 practicum)

Total Contact Hours: 150

Methods: Lecture/Practicum/Reports

Course Location: Yarmouth Fire Station + Other Field Sites

Lead Instructor + Contact Info: Jeff Goodness (jgoodness@smccme.edu or 207-590-8770)

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Course Syllabus

Course Description

This course provides an occupational foundation for fire suppression in municipal and industrial settings by focusing on the art and science of controlling and extinguishing fires. The course is based on the National Fire Protection Association (NFPA) 1001 Firefighter Professional Qualifications Standard, Firefighter Levels I and II. Successful students will achieve a foundation of knowledge and skills in the vital mission of protecting people, property and the environment from a range of threats by employing proactive, reactive and leadership/administration methods. Students will be held accountable and must be complete pre-class and post-class assignments on time and operate as part of a firefighting team. Successful students will have the opportunity to earn Maine Structural Firefighter qualification and test for state (MFSI) and national (Pro Board) Firefighter I + II certification.

Student prerequisites: NFPA 1582-compliant medical evaluation and Maine Bureau of Labor Standards respiratory protection requirements. Non-FD affiliated students must arrange for compliant personal protective equipment (PPE) and self-contained breathing apparatus (SCBA) to use throughout the course.

Fire Science Learning Outcomes

Completion of an AAS degree in Fire Science from Southern Maine Community College will prepare students to:

- 1) Analyze and apply proactive fire prevention and control methods for safe and cost-effective fire protection.
- 2) Analyze and apply reactive fire and emergency scene operations for safe and cost-effective fire protection.
- 3) Examine and appraise principles of supervision and management necessary for effective leadership and administration in the fire/rescue service.

Course Objectives

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

- 1) Relate the history of the fire and Emergency Medical services to current and future fire protection challenges.
- 2) Describe the mission, goals, components and methods of the fire and emergency services.
- 3) Explain and consistently demonstrate the knowledge, skills, attitudes and actions necessary for safe and effective training and operations of municipal and private industrial fire suppression services as prescribed by NFPA 1001.
- 4) Demonstrate hands-on skills in fire suppression, search and rescue, public education, hazardous materials, and other related topics as prescribed by NFPA 1001.
- 5) Demonstrate the primary responsibilities of fire prevention personnel including, code enforcement, public information, and public and private protection systems.
- 6) Recognize and value the fire service's level of public trust, obligations to self, team-members and citizens for maintaining excellence in customer service.

Topical Outline

- 1) The fire service
- 2) Firefighter health and safety
- 3) Personal protective equipment
- 4) Fire service communications
- 5) Fire behavior
- 6) Building construction
- 7) Portable fire extinguishers
- 8) Fire fighter tools and equipment
- 9) Ropes and knots
- 10) Forcible entry
- 11) Ladders
- 12) Search and rescue
- 13) Ventilation
- 14) Water supply systems
- 15) Fire hose, appliances, and nozzles
- 16) Supply line and attack line evolutions
- 17) Fire suppression
- 18) Fire fighter survival
- 19) Salvage and overhaul
- 20) Fire fighter rehabilitation
- 21) Wildland and ground cover fires
- 22) Establishing and transferring command
- 23) Advanced fire suppression
- 24) Vehicle rescue and extrication
- 25) Assisting special rescue teams
- 26) Fire detection, suppression and smoke control systems
- 27) Fire and life safety initiatives
- 28) Fire origin and cause
- 29) Hazardous materials regulations, standards, and laws
- 30) Recognizing and identifying the hazards
- 31) Properties and effects
- 32) Understanding the hazards
- 33) Estimating potential harm and planning a response
- 34) Implementing the planned response
- 35) Hazardous materials responder health and safety
- 36) Hazardous materials responder personal protective equipment
- 37) Product control

Course Requirements

Students are expected to complete pre-course requirements prior to the end of the add-drop period, pre-class assignments (including multiple online quizzes) on time, attend all classes and take notes. Students will be expected to actively participate in classroom discussions, group assignments and hands-on activities. There are several written exams, papers and presentations which will be developed and presented by each student individually and in teams. Online quizzes and in-class quizzes as well as cognitive and hands-on tests will also be given. Students must also pass a medical screening and respiratory screening.

2019 Grading

Quizzes	25%
Workbook P/F	15%
Papers	10%
Mid-term	20%
Hands on Skills P/F	10%
Final Exam	20%

Required Texts

1. Fundamentals of Fire Fighter and Hazmat Response 4e Premier Package with student workbook and Navigate 2 Course Manager access Codes. Jones and Bartlett ISBN: 9781284182774

Student Classroom Behavior & Expectations

- *Students must complete all pre-course requirements, including the medical evaluation (see student pre-course package).*
- *Students are expected to attend all classes. You are expected to arrive to class on time, before it begins.* See details below.
- *Students are expected to stay engaged in class.* Stay on task. Please do not be distracted by personal discussions, electronic devices, etc. during class.
- *Students are expected to demonstrate safe, professional behavior at all times during the course.* Students exhibiting unsafe behaviors – including horseplay -- will be expelled from the course.
- *Students are expected to submit original work unless other sources are clearly credited.* Students are expected to equitably share the load in group work. Cheating will not be tolerated. Student's found cheating may result in penalizing actions up to and including a failing grade in class following policies in the student code of conduct.
- *Students are expected to prepare for class and complete all assignments.* Readings and homework provide the foundation for class lectures, discussions, projects and hands-on activities. Weekly quizzes will be given over the assigned readings. Homework will be assigned each week and must be submitted at beginning of the next class. *You cannot pass this course without doing your homework every week!*
- *Students are expected to take notes during class.* Notes and handouts should be organized in a binder. This is a class requirement and will be graded.
- *Students are expected to respect the classroom, fellow students and faculties.* Listen thoughtfully when others speak, even if you disagree with what they are saying. Challenge your own notions. Defend your positions with facts.
- *Students are expected to actively participate and think critically.* This is necessary for knowledge sharing and to get the most from practice/application opportunities.
- *Students are expected to set pagers, or cell phones on vibrate* during class time and ignore unless emergency.
- *Students are expected to not use tobacco of any kind in the classroom or training ground.* Food and drinks should be used respectfully of others and the facility.
- *Students are expected to doff hats and not wear any distracting attire* during classroom time.
- *Students will be held accountable.* ... For working hard, staying engaged, persisting, asking for help as needed (earlier, rather than later), taking responsibility, meeting course expectations and mastering course materials.

Homework and Written Assignments

Assignments, typed out and stapled, are due @ the start of class period. Late assignments (papers, take-home quizzes, etc.) will be accepted only at the following class (no exceptions) and will receive a maximum grade of 50% unless prior authorization is given by the instructor. If you are not going to be in class the day homework is due, it is your responsibility to get it to the instructor prior to the start of class you will miss. All written assignments (other than your class notes) are to be typed neatly and stapled using MSWord, RTF or PDF file format.

Students must pass each online quiz with a minimum of 70%. Students will have 2 attempts per online quiz. Students must maintain a 70% average on the online quizzes and have a pass on all hands on objectives to be eligible to participate at the MFSI practical end test in December.

Attendance + Participation

Attendance at all orientation and class sessions is mandatory, will be recorded and will affect student's course grade. SMCC requires instructors to report the names of students to the registrar's office who stop attending class. *Missing a portion of class will be measured as ½ an absence. For the purpose of this class, students will be reported as no longer attending after two consecutive – or a total of three -- absences from the class, resulting in a grade of Administrative Failure (AF) being recorded for the student. Any tardiness will be considered ½ of an absence. FMI, please refer to the SMCC Student Handbook. Students are expected to notify the instructor in advance, concerning absences. Students are responsible for all material – and meeting deadlines – regardless of absences.*

Due to the nature of this course students are allowed to miss no more than 1 hands on skill evaluation day. Students will be required to make up the skills they missed at the convenience of the instructors. Students can not miss training days that include Class A burns, Class B burns, Car Fire evolutions, and Hazmat classes scheduled for 3 days.

End-of-Course Evaluation

In order to gain access to final course grades, students must complete evaluations for each course attended at SMCC. Evaluations are submitted online and can be accessed through the student portal site. Students can access the course evaluation report beginning two weeks before the end of classes. The deadline for submission of evaluations occurs 24 hours after the last day of classes each semester. Instructors will announce when the online course evaluation is available. Course evaluations are essential to instructor and course improvement.

SMCC Pay-for-Print Policy

Students can print 150 pages per semester free of charge. If you print over 150 pages, you will be charged 10 cents per page to your student billing account for tuition and fees. Leftover pages from each semester will not be rolled over to the following semester. The College's pay-for-print system monitors printing on all public printers (i.e. those in general access labs, library printers, the Academic Achievement Center, Noisy Lounge and technology labs). Each time you log-in to the system, the print station displays the remaining print quota. Once the printing quota has been exceeded, users will be charged \$ 0.10 per page or \$.05 per side if the printer prints on both sides on their student accounts on a monthly basis. Color printout will be charged at 11 page units. This means each color printout will count as 11 pages toward the quota and will cost \$1.10.

Add-Drop Policy

Students who drop a course during the one-week "add/drop" period in the fall and spring semesters and the first three days of summer sessions receive a 100% refund of the tuition and associated fees for that course. Please note any course that meets for less than the traditional semester length, i.e., 15 weeks, has a prorated add/drop period. There is no refund for non-attendance. **Add/drop deadline is Tuesday of Week 2 @ 1700 hours.**

Withdrawal Policy

A student may withdraw from a course during the semester in which s/he is registered for that course. The withdrawal period is the second through twelfth week of the fall and spring semesters and the second through ninth week of twelve-week summer courses. This period is pro-rated for shorter-length courses. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Enrollment Service Center (no phone calls, please). The designation "W" will appear on the transcript after a student has officially withdrawn. A course withdrawal is an uncompleted course and may adversely affect financial aid eligibility. Failure to attend or ceasing to attend class does not constitute withdrawal from the course. There is no refund associated with a withdrawal.

Plagiarism Statement

Students are responsible for adherence to ethical academic standards. Cheating is a serious offense, whether it consists of taking credit for work done by another person or doing work for which another person will receive credit. Taking and using the ideas or writings of another person without clearly and fully crediting the source is plagiarism and violates the academic code as well as the Student Code of Conduct. If it is suspected that a student in any course in which s/he is enrolled has knowingly committed such a violation, the faculty member will refer the matter to the College's Disciplinary Officer and appropriate action will be taken under the Student Code of Conduct. Sanctions may include suspension from the course and a failing grade in the course. Students have the right to appeal these actions to the Disciplinary Committee under the terms outlined in the SMCC Student Code of Conduct.

Inclement Weather

If any classes have to be canceled due to inclement weather, tests or student presentations will be rescheduled for the next class period and assignments will be collected at the next class period. School closure info is available at www.smccme.edu by calling 741-5500 or tune into any local TV station.

ADA Syllabus Statement

Southern Maine Community College is an equal opportunity/affirmative action institution and employer. For more information, please call 207-741-5798. If you have a disabling condition and wish to request accommodations in order to have reasonable access to the programs and services offered by SMCC, you must register with the disability services coordinator who can be reached at 741-5629. Documentation must be supplied to your instructor before accommodations can be given. Further information about services for students with disabilities and the accommodation process is available upon request at this number.

SEE STUDENT HANDBOOK FOR OTHER ACADEMIC POLICIES