School of Public Safety and Heath FSMT 102 (Formerly GM292)

Fire Behavior And Combustion 3 Credit Hours 8-Weeks Prerequisite(s): None

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Instructor Information

Instructor: Email: Phone: Office Hours:

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Course Description (Catalog)

This course explores the theories and fundamentals of how and why fires start, spread, and how they are controlled.

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Course Scope

The scope of FSMT 102 (formerly GM292) *Fire Behavior* is to meet the levels of mastery established by the National Fire Academy, NFPA 1021 and NFPA 1033. These standards are agreed upon by professionals across the fire service community as the foundational benchmarks that all individuals should know at the completion of this course. I encourage all of you to view the NFA link for this course in the bibliography. By the end of this course you will be able to discuss and have a through knowledge of the learning objectives listed in the next session.

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Course Objectives

- ❖ Identify physical properties of the three states of matter.
- Categorize the components of fire.
- * Recall the physical and chemical properties of fire.
- Describe and apply the process of burning.
- Define and use basic terms and concepts associated with the chemistry and dynamics of fire.
- Describe the dynamics of fire.
- Discuss various materials and their relationship to fires as fuel.
- ❖ Demonstrate knowledge of the characteristics of water as a fire suppression agent.
- Articulate other suppression agents and strategies.
- Compare other methods and techniques of fire extinguishments.

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Course Delivery Method

This B.S. in <u>Fire Science Management</u> course delivered via distance learning will enable students to complete academic work in a flexible manner, completely online. Course materials and access to an online learning management system will be made available to each student. Online assignments are due by the last day of each week (Sunday) and include Discussion Board questions (accomplished in groups through a threaded discussion board), examinations and quizzes (graded electronically), and individual assignments (submitted for review by the Faculty Member). Assigned faculty will support the students throughout this eight-week course.

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Course Materials

Shackelford, Raymond. (2009). Fire Behavior and Combustion Processes, 1st Edition. Clifton Park, NY: Delmar Publishers. ISBN# 9781401880163.

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Evaluation Procedures

Grades for this course will be based upon three grading instruments; papers, discussions and a final exam. There are 8 discussion Forum questions that are provided in the **Forum Portion of the Classroom**. The student – when directed by the instructor -- will respond to the posting of other students.

The grade scale and due dates for each of the evaluation are provided below:

Grade Instruments:	<u>Points</u>	% of Final Grade
Forum Topic 1	100pts	6.25%
Forum Topic 2	100pts	6.25%
Forum Topic 3	100pts	6.25%
Forum Topic 4	100pts	6.25%
Forum Topic 5	100pts	6.25%
Forum Topic 6	100pts	6.25%
Forum Topic 7	100pts	6.25%
Forum Topic 8	100pts	6.25%
Week 2 Paper	100pts	10%
Week 4 Paper	100pts	10%
Week 6 Paper	100pts	10%
Week 8 Final Paper	100pts	10%
Week 8 Final Exam	<u>100pts</u>	<u>10%</u>
	1300pts	100%

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Grading Scale

<u>Grade</u>	Quality Points	Grading Percentage	<u>Description</u>
A	4.0	100-94	Excellent
A-	3.67	93-90	
B +	3.33	89-87	
В	3.0	86-84	Above Average
В-	2.67	83-80	
C +	2.33	79-77	
C	2.0	76-73	Average/Minimum Performance Level Expected

C-	1.67	72-70	
D +	1.33	69-67	Unsatisfactory
D	1.0	66-64	Unsatisfactory
D-	.67	63-60	Unsatisfactory
F	0.0	59-0	Failing
I	NONE	NONE	Incomplete
DP	NONE	NONE	Dropped
W	NONE	NONE	Withdrawn
WP	NONE	NONE	Withdrawn Passing
WF	NONE	NONE	Withdrawn Failing
X	NONE	NONE	Audit grade: No Academic Credit awarded

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Course Outline

Week	Topic(s)	Learning Objective(s)	Reading(s)	Assignment(s)
1	The American Fire Service: The past, present, and future. Fire chemistry	 Examine how the history of our society has shaped the American attitude toward fire prevention and fire control efforts. Describe and explain how other countries approach the control of fires and compare and contrast their approach with U.S. efforts. Describe new technologies and systems the fire service has implemented in recent years. 	Chapters 1 and 2	Submit a brief Biography to the Forum

Describe the fire service of today, its successes, its problems, and its efforts toward improvement. Describers, and its efforts toward improvement. Lexamine and envision the challenges and opportunities open to the fire service in the twenty-first century. Understand and explain the basic structure of atoms. Extinguishing Describe the various methods by which heat and unburned gases move in a confined environment. Extinguishing Extinguishing Describe the various methods by send suggests Review the five basic classifications of fire and explain the various types of agents used to extinguish nor control		F		s proprietary material of Art Co.	7	
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the various types of agents used to extinguish or control	3		*	Review the five basic classifications of fire and explain		
				the various types of agents used to extinguish or control		

	-	Englishes Englishes Company		
		fires in these five classifications.		
		Examine in detail the variety of agents used for fire Authorized months and available to a policytical months do for		
		extinguishment and explain the application methods for		
		each of these agents.		
		Indentify and explain the benefits of using the latest		
		technological advances in fire extinguishing agents such		
		as compressed air foam and ultrafine water mist		
		systems.		
				1.45
			pter 5 Wee	ek 4 Paper Due
		strategy and tactics involved in planning, locating,		
		confining, extinguishing, and overhauling fires in		
		buildings and other special fire situations.	Foru	ım Topic
		 Discuss the methods used for the determination of the 		
	Foundations of fire fighting tactics and strategies	proper fire operating mode: offensive, transitional,		
		defensive, or non-attack mode.		
4		Define the term size-up and explain the steps and		
		factors involved in making a size-up.		
		Review the fire strategy and tactics used by firefighters		
		and apply the fire behavior characteristics discussed in		
		the text to the situations reviewed.		
		 Describe difficult fire situations encountered by 		
		firefighters and the strategies and tactics they should		
		use to resolve these situations.		
		 Explain prefire and postfire planning processes and Char 	pter 6 Foru	ım Topic
		describe how these activities will ensure safe, efficient,		P
5		and effective firefighting activities.		
		 Describe fire behavior in confined enclosures with and 		
	Special	without ventilation activities. Explain the various		
	concerns in firefighting	methods of ventilation and how each method impacts		
	3 3	fire behavior.		
		 Explain the activities of salvage and overhaul and their 		
		role in fire extinguishment, and methods used to reduce		
		further property loss.		

	T T T T T T T T T T T T T T T T T T T		Explain the procedures used to ensure that utilities do		
			not threaten the safety of the building or its occupants.		
		*	Understand and explain why high-rise buildings present	Chapters 7	Week 6 Paper Due
			a difficult and different fire problem for firefighters,	and 8	
			including the unique fire behavior problems that may be		
			encountered in a high-rise fire.		Forum Topic
		*	Recognize the difference in construction methods of		*
			high-rise buildings and explain how different construction		
			materials and designs impact fire behavior in these		
			buildings.		
		*	Describe the firefighting strategies and tactics used to		
			locate, confine, and extinguish high-rise fires.		
		*	Describe the special problems that may be encountered		
			on high-rise fires such as communications issues, the		
			stack effect, ventilation concerns, evacuation issues, and		
			elevator control.		
		*	Describe and explain the purpose of the special fire		
	High-rise building fires		protection equipment which may be found in high-rise		
6	and wildland		buildings.		
	fires	*	Describe when a stairwell support system may be		
			needed.		
		*	Explain the basic fire combustion principles and be able		
			to apply them to wildland fires, and differentiate wildland		
			fire behavior from structural fire behavior.		
		*	Examine how weather conditions impact wildland fuels		
			and the behavior of wildland fires.		
		*	Describe the various parts of a wildland fire and identify		
			how fire behavior impacts the methods of firefighting		
			wildland fires. Include some of the special techniques		
			needed to extinguish and control these fires.		
		*	Describe the method used to classify resources used on		
			wildland fires and how fire behavior impacts the type and		
			amount of resources needed to suppress wildland fires.		
		*	Describe the various resources and tools used in		

		extinguishment of wildland fires.	
7	Transportation fires and related safety issues	 Examine fire behavior and safety-related problems in transportation vehicles encountered by firefighters. Describe fire problems and safety issues experienced with transportation vehicles and explain actions that may be taken to resolve the issues. Examine and describe special fire behavior problems one might encounter with each of the classification of transportation vehicles. Explain the importance of fire preplanning and familiarization procedures for each of the categories of transportation vehicles. 	Study For Final Exam Forum Topic
8	Hazardous materials and warning systems	 Describe the U.S. Department of Transportation hazardous materials warning system, including its advantages and disadvantages. Describe the National Fire Protection Association standard 704 warning system, including its advantages and disadvantages. Explain the requirements, purposes, and value of Materials Safety Data Sheets to first responders. Explain the types of information available for first responders contained in the 2008 Emergency Response Guidebook. Describe the responsibilities and duties of state and local emergency planning committees and how their plans and documents assist first responders with information. Explain the issues that make weapons of mass destruction incidents complex and the reasons for the development of the National Incident Management System. 	Forum Topic Final Exam

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ACADENIC DISHONESTY: PLAGIARISM AND CHEATING

The University System supports and promotes academic honesty and personal integrity. Cheating can take the following forms:

- Submitting another person's work
- Writing a paper for someone else
- Working in a group effort without faculty consent
- Buying a paper from a research service
- Getting outside help or giving outside help without a teacher's expressed permission
- Submitting the same work for credit without approval (e.g. submitting the same assignment twice for different courses)

The Web & Plagiarism Note: The Web has made it quite easy to copy and insert materials into a paper. Students must be careful to properly attribute materials found on the Web. In a collegiate setting, attribution typically relies on a formal academic style manual for its citation models (See Citation and Reference Style). Such models describe how to append footnotes and endnotes, when:

- Quoting another's exact words, you are obviously expected to name the author and place
 the words in quotation marks or in indented text blocks. The citation number is placed
 immediately at the end of the quotation.
- Acknowledging background sources to your own descriptions--. The citation number is normally placed at the end of the paragraph.

Note: The University offers tools in its <u>Online Library Research Center</u> to help you analyze your papers for possible plagiarism violations and for instructors to uncover such activities.

APA WRITING EXPECTATIONS

All written submissions should be submitted in a font and page set-up that is readable and neat. It is recommended that students try to adhere to a consistent format, which is described below.

- Typewritten in double-spaced format with a readable style and font and submitted inside
 the electronic classroom (unless classroom access is not possible and other
 arrangements have been approved by the professor).
- Arial 11 or 12-point font or Times New Roman styles.
- Page margins Top, Bottom, Left Side and Right Side = 1 inch, with reasonable accommodation being made for special situations and online submission variances.

CITATION AND REFERENCE STYLE

Assignments completed in a narrative essay or composition format must follow APA Citation Style guidelines. This course will require students to use the citation and reference style established by APA: American Psychological Association. (2009). *Publication manual of the American psychological association*. (6th ed.). Washington, DC: American Psychological Association

COURSE EXTENTIONS

Students must determine the need for their first Course Extension and submit their "Request Course Extension" form *before* the end of the grading period (14 days after the end date of the course). If a final grade has been posted in the course, the student may still be eligible to request an extension; however, the extension form will not be available to the student inside the campus. In this case, the student must email the professor and carbon copy (cc) registrar@apus.edu to request an extension. For a student to be eligible they must have successfully completed 50% of the assigned work at the time of the extension request.

Courses may be extended in 30-day intervals for a maximum of 60 days. Students who will be prevented from participating in a course due to extenuating circumstances may be eligible for Deployment and/or Special Circumstances extension.

LATE ASSIGNMENTS

For each week that an assignment is late, two points may be deducted from your grade for the assignment unless the student contacts the instructor ahead of time about an extenuating situation.

DISABILITY ACCOMODATIONS

This institution complies with the <u>Americans with Disabilities Act, Section 504 of the Rehabilitation Act,</u> and the <u>World Wide Web Consortium's (W3C) Universal Access Guidelines</u>. Students with special needs should inform their individual instructors and the University's student services staff.

NETIQUETTE

Online universities promote the advance of knowledge through positive and constructive debate-both inside and outside the classroom. Discussions on the Internet, however, can occasionally degenerate into needless insults and "flaming." Such activity and the loss of good manners are not acceptable in a university setting--basic academic rules of good behavior and proper "Netiquette" must persist. Remember that you are in a place for the fun and excitement of learning that does not include descent to personal attacks, or student attempts to stifle the discussion of others.

- Technology Limitations: While you should feel free to explore the full-range of creative composition in your formal papers, keep e-mail layouts simple. The Educator classroom may not fully support MIME or HTML encoded messages, which means that bold face, italics, underlining, and a variety of color-coding or other visual effects will not translate in your e-mail messages.
- **Humor Note:** Despite the best of intentions, jokes and--especially--satire can easily get lost or taken seriously. If you feel the need for humor, you may wish to add "emoticons" to help alert your readers: ;-), :), ©

DISLCAIMER STATEMENT

Course content may vary from the outline to meet the needs of this particular group.

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Academic Services

ONLINE LIBRARY RESEARCH CENTER & LEARNING RESOURCES

The Online Library Resource Center is available to enrolled students and faculty from inside the electronic campus. This is your starting point for access to online books, subscription periodicals, and Web resources that are designed to support your classes and generally not available through search engines on the open Web. In addition, the Center provides access to special learning resources, which the University has contracted to assist with your studies. Questions can be directed to orc@apus.edu.

 Charles Town Library and Inter Library Loan: The University maintains a special library with a limited number of supporting volumes, collection of our professors' publication, and services to search and borrow research books and articles from other libraries.

- *Electronic Books:* You can use the online library to uncover and download over 50,000 titles, which have been scanned and made available in electronic format.
- *Electronic Journals:* The University provides access to over 12,000 journals, which are available in electronic form and only through limited subscription services.
- Turnitin.com: Turnitin.com is a tool to improve student research skills that also detect plagiarism. Turnitin.com provides resources on developing topics and assignments that encourage and guide students in producing papers that are intellectually honest, original in thought, and clear in expression. This tool helps ensure a culture of adherence to the University's standards for intellectual honesty. Turnitin.com also reviews students' papers for matches with Internet materials and with thousands of student papers in its database, and returns an Originality Report to instructors and/or students.
- **Smarthinking:** Students have access to 10 free hours of tutoring service per year through Smarthinking. Tutoring is available in the following subjects: math (basic math through advanced calculus), science (biology, chemistry, and physics), accounting, statistics, economics, Spanish, writing, grammar, and more. Additional information is located in the Online Research Center. From the ORC home page, click on either the "Writing Center" or "Tutoring Center" and then click "Smarthinking." All login information is available.

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Selected Bibliography

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