



FIRT 1333 – Fire Chemistry I

Instructor – Gordon Haynes

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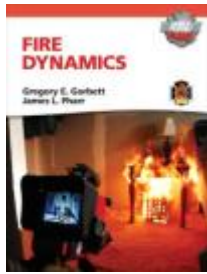
Course Description

This course focuses on the physical properties of fire and how it spreads. Students will explore the phases of fire and its unique properties. This course will cover chemistry, combustion, ignition, heat release rates, and extinguishment.

Course Outcomes

At the end of this course, students will be able to:

- Explain the relationship between chemistry and fire behavior
- Explain the physical elements that affect the combustion process
- Summarize the properties of fire
- Explain the hazards associated with gasses
- Differentiate a flammable liquid from a combustible liquid
- Explain the thermal decomposition of a solid fuel
- Describe the heat release rate measurement methods
- Describe heat transfer
- Describe the process of initiating self-sustained combustion
- Explain the impact of a compartment on fire behavior
- Explain fire extinguishing agents



Title: *Fire Dynamics*
Edition: 1e
Author: Gorbett and Parr
ISBN: 0133769232

Lesson Checklists

Every lesson has a prescribed checklist of assignments required to successfully complete the lesson. Follow this checklist to complete each lesson.

Course Components

The *Fire Behavior and Combustion* course is made up of the numerous graded and ungraded activities listed here.

Graded Assessments

- Chapter assignments
- Quizzes
- Discussions

Ungraded Assignments

- Reading assignments (in the lesson presentations)
- Online analysis exercises
- Online information literacy exercises

Grades

The following table shows the graded assessment types contained within this course and the assigned weighting used to determine the final course grade.

Graded Assessment Types	Weights (%)
Discussions	33%
Quizzes	33%
Chapter assignments	33%
Introduction post	1%
Total:	100%

Letter grades for the course will be based on the following grading scale.

Letter Grade	Percentage	Grade Point
A	90 - 100%	4.0
B+	85 - 89%	3.5
B	80 - 84%	3.0
C+	75 - 79%	2.5
C	70 - 74%	2.0
D+	65 - 69%	1.5
D	60 - 64%	1.0

F	<60%	0.0
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Course Participation

Unlike a traditional classroom-based course, you do not need to show up to class at a specific time every day to earn your class participation grade in an asynchronous online course. Instead, you need to complete the online lesson presentations, assignments, quizzes, and discussions by the due dates specified by your instructor. Although some of your activities will be ungraded, your instructor will keep track of whether you have completed them and will assign you a course participation grade based on your completion of these assignments.

Assignments and discussion post will be given a due date. Work received after that point will lose 10 points base score for each week late. Example work turned in one week late will have 10 points deducted and your maximum score possible would now be 90.

Online Etiquette

The objective in an online discussion is to be collaborative, *not* combative. Please, proofread your responses carefully before you post them to make sure that they will not be offensive to others. Use discussions to develop your skills in collaboration and teamwork. Treat the discussion areas as a creative environment where you and your classmates can ask questions, express opinions, revise opinions, and take positions just as you would in a more traditional classroom setting.