

FIRE 1521 - Combustion Processes and Fire Behavior

Fall 2026 Syllabus, Section 01, CRN 43155,

Credit hours: 3

Instructor

Michael Gulya

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Public Instructor Information

Instructor Title: Prof. Gulya

Instructor Professional Qualifications: BS in Fire Science; 5 years of experience as a college instructor; and over 10 years of experience as a fire fighter

Instructor Office Location: Virtual office hours

Instructor Office Phone: 330-941-3279

Course Description

1521. Combustion Processes and Fire Behavior. This course investigates the theories and basics of how and why fires begin, spread, and are hopefully controlled so that minimal damage occurs. Prereq.: FIRE 1501 and FIRE 1520. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Fire Behavior and Combustion Processes (2nd edition)	Shackleford	9781284206562

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
10/19	Shackleford chapters 1-2		Discussion 1
10/26	Shackleford chapters 3-4		Discussion 2
11/2	Shackleford chapters 5-6		Discussion 3
11/9	Shackleford chapters 7-8		Discussion 4
11/16	Shackleford chapters 9-10		Discussion 5
11/23	Shackleford chapters 11-12		Discussion 6
11/30	Shackleford chapter 13		Discussion 7

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.