
CASPER COLLEGE COURSE SYLLABUS
Course Number and Title: FIRE 1550-01 Fire Causes and Investigation

Semester/Year: Fall 2015

Lecture Hours: 3

Lab Hours: 0

Credit Hours: 3

Class Time: 2:30 to 5:30 p.m. Days: Monday

Room: EI 100

Instructor's Name: Bob Fawcett & Dean Jacket

Instructor's Contact Information: NCFD St. 7

Office Phone: (307) 234-8826

Email: bfawcett@natronacounty-wy.gov

Office Hours: By appointment

Course Description: An in-depth study of the causes and investigation of all types and descriptions of fires from the fire science point of view.

Statement of Prerequisites: None

Goal: To give the students an overview of the fire causes and to develop an understanding of the roles of a fire investigator.

Outcomes:

To be able to complete a site safety assessment of a building involved in a fire.

To be able to conduct a systematic evaluation of a fire scene.

Student will use critical thinking and creativity in determining the origin and cause of fire.

Student will use the scientific method to properly examine, preserve and document the reporting of a fire.

Course Objectives: To use the scientific method along with critical thinking and creativity in determining the origin and cause of a fire along with documenting your findings.

Methodology: The course will be presented in a lecture format. Exercises will be utilized to gain practical knowledge of the fire investigations. I will try to present an actual fire investigation case at the end of every lecture. Since these are actual fires that have happened in our community, any information about the fire **MUST** remain confidential.

There will be six courses taken online @www.CFItrainer.net

Evaluation Criteria: Grades in this course will be based on exams and projects.

Quizzes	100 points	A	90-100%
CFI Tests	150 points	B	80-89%
Class Participation	100 points	C	70-79%
Mid Term	100 points	D	60-69%
Final	<u>100 points</u>	F	59% and below
Total	550 points		

Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.

Required Text, Readings, and Materials: Fire Investigator Principles and Practice to NFPA 921 and 1033 Fourth Edition. CFI Trainer classes (www.cfitrainer.net)

Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:

See current Casper College catalog.

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

Academic Dishonesty: (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Calendar or schedule indicating course content:

The following schedule is subject to change. Changes will be announced during lectures.

<i>Date</i>	<i>Topic</i>
Aug. 24	Introduction/ Administration, Basic Methodology and Basic Fire Science Ch. 1,2,3 CFI Trainer Intro. Bob and Dean
Aug. 31	Legal, Documentation Ch. 10,14 Dean
Sept. 07	No Class, Labor Day
Sept. 14	Fire Patterns Ch. 4 Dean
Sept. 21	Building Systems, Fire Protection Systems Ch. 5,6 Dean
Sept. 28	Electricity and Fire Ch. 7 Bob
Oct. 05	Building Fuel Gas Systems, Fire Related Human Behavior Ch. 8,9 Bob
Oct. 12	Midterm CFI Trainer Bob and Dean
Oct. 19	No Class, Fall Break
Oct. 26	Safety, Sources of Information, Planning the Investigation Ch. 11,12,13 Bob
Nov. 02	Physical Evidence, Origin Determination, Fire Cause Determination, Classification of Fire Cause Ch. 15,16,17,18 Dean
Nov. 09	Analyzing the Incident for Cause and Responsibility, Failure Analysis and Analytical Tools Ch. 19,20 Bob
Nov. 16	Explosions, Incendiary Fires Ch. 21,22 Dean
Nov. 23	Fire and Explosion Deaths and Injuries, Appliances Ch. 23, 24 Bob
Nov. 30	Motor Vehicle Fires Ch. 25 Dean
Dec. 07	Wildfire Investigations, Management of Complex Investigations Ch. 26,27 Bob
Dec. 14	Final, CFI Trainer due. Bob and Dean