

FIRS 1166

Practicum – Fire Science/Firefighting

Course Syllabus

1 Semester Credit Hour (0-0-8)

Course Description:

This is part eight of a series of eight courses (Midland College Fire Academy) designed to prepare students for a career in the fire service as an entry-level firefighter. Successful completion of all requirements in each of the eight courses, as well as any requirements specified by the state of Texas, will allow students to take the Structural Firefighter Certification examination administered by the Texas Commission on Fire Protection (TCFP). Midland College is an approved training facility by TCFP for this purpose. The Midland College Fire Academy is comprised of classroom education, on-line education (hybrid), and hands-on training. All courses must be completed in the designated order from start to finish. Any student exiting the fire academy prior to successful completion of all eight courses will be required to re-apply for admission to start the fire academy again from the beginning.

Prerequisites:

Admission to Midland College

Approval of the Department Chair, Fire-EMS

Text, References, and Supplies:

Jones & Bartlett Learning, LLC (2019). *Fundamentals of Fire Fighter Skills and Hazardous Materials Response, 4th Edition, with Navigate2 Advantage Access*. Burlington MA: Jones & Bartlett Learning.

ISBN: 978-128-415133-6

Approved student uniform

Approved work-out clothing for physical conditioning activities

Approved NFPA 1971 Structural Firefighting ensemble

Learning Outcomes:

Upon successful completion of the Midland College Fire Academy, students will be able to identify, describe, discuss, and/or apply the following theories, concepts, and/or skills:

1. Orientation and Fire Service History
2. Fire Fighter 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 Awareness Level
30. Hazardous Materials Operations Level
31. Hazardous Materials Operations Level: Mission Specific

Student Contributions:

Students are expected to actively participate in this class and meet stringent academic and attendance policies. Failure to meet these academic and/or attendance policies will result in student dismissal from this course and the fire academy.

Students are expected to comply with all policies published in the Midland College catalog. Instructor policies concerning academic requirements and attendance are within Midland College guidelines as published in the catalog. These policies specifically address expected student conduct, academic integrity, confidentiality, student grievances, incompletes, and other related matters. In general, students are expected to conduct themselves as responsible adults in a college setting. Respect for the ideas and opinions of others is expected. Cheating and plagiarism will not be tolerated.

Please read the Student Rights and Responsibilities section of the catalog:

<http://catalog.midland.edu/content.php?catoid=9&navoid=1373> .

The last day for withdrawal is published in the catalog. To drop a course, the student must submit form through My PC Portal.

Evaluation of Students:

Students will be evaluated based on grades in the following categories and weights:

Individual Skills Examinations: 85%

Attendance: 15%

Grading Scale:

A = 90-100%

B = 80-89%

C = 75-79%

D = 60-74%

F = 0-59%

ADA Statement:

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must place documentation on file with the Counselor/Disability Specialist. Students with disabilities should notify Midland College prior to the beginning of each semester. Student services will provide each student with a letter outlining any reasonable accommodations. The student must present the letter to the instructor at the beginning of the semester. The link to Disability Services is:

[Student Services \(midland.edu\)](http://midland.edu)

Instructor Information:

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Department Chair Information:

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Health Sciences Division Information:

Division Dean: Carmen Edwards DFHS 210 432.686.4822

Division Secretary: Karen Harris DFHS 206 432.685.4799

Assignments Summary:

Individual Skills (55)

Attendance

Please Note: You must pass each individual assignment with a grade of 75% or higher and maintain 90% attendance in order to be eligible to take the TCFP Basic Firefighter Certification Examination.