Course Description
FS 205. Firefighting Tactics and Strategy. 3 hours credit. Prerequisite: FS 100 with a C or better or concurrent enrollment in FS 100. This course will enable the student to identify and execute tactics, strategies, and procedures during fire ground operations, as part of a team or as an individual. The student will develop skills in identifying problems that modern construction presents during fire ground operations. The student will address incident preplanning, incident action plans, potential fire ground problems, special methods and equipment used during fire fighting operations, and post fire analysis. The student will be able to identify each position within the Incident Management System and acknowledge the importance of establishing attack and rescue priorities during various emergency operations.

Required Materials
For complete material(s) information, refer to https://bookstore.butlercc.edu

Butler-assessed Outcomes
The intention is for the student to be able to:
1. Establish incident preplans, and incident action plans for a variety of emergency operations.
2. Identify and explain various fire ground strategies and tactics.

Learning PACT Skills that will be developed and documented in this course
Through involvement in this course, the student will develop ability in the following PACT skill area(s):
Analytical Thinking Skills
- Critical thinking - Through identifying and defining different types of fire apparatus and their systems, the student will develop critical thinking skills.
- Problem solving - Through identifying a task, gathering the appropriate information, processing the information, and generating an appropriate response, the student will develop critical thinking skills.

Major Summative Assessment Task(s)
These Butler-assessed Learning Outcome(s) and the Learning PACT skills will be demonstrated by:
1. Participating as part of a team in exercising various fires ground tactics during a summative emergency incident scenarios
2. Developing and analyzing the incident management system, incident preplan, and incident action plan, as they relate to emergency operations
Skills or Competencies
Actions that are essential to achieve the course outcomes:
1. Identify different types of structures and potential problems they present to emergency incident operations
2. Given a specific type of situation, develop an incident preplan and incident action plan related to the specific situation
3. Identify each position within the Incident Management System
4. Use various fire service tools and equipment to perform tactics as part of a team during practical evolutions
5. Conduct a post fire analysis that acknowledges the importance of establishing attack and rescue priorities during various emergency operations

Learning Units
I. Principles of fire fighting
   A. Sequence of actions to be taken

II. Scene size-up
   A. Life hazard
   B. Occupancy
   C. Time
   D. Construction
   E. Area and height
   F. Location and extent of fire
   G. Exposures
   H. Apparatus and personnel
   I. Water supply
   J. Auxiliary appliances
   K. Weather conditions
   L. Street conditions/special matters
   M. Hazmats

III. Engine company operations
   A. Fire behavior and methods of attack
   B. Choose the proper operating mode-offensive, defensive, or no attack
   C. When human life is at stake, an offensive attack is mandatory
   D. Begin suppression an soon as possible
   E. Get the first hoseline in operation to cover the worst case before stretching additional lines
   F. When an attack is stalled, ventilation, water flow, or both; if unsuccessful, change tactics
   G. When and effective offensive attack isn’t possible or hasn’t succeeded within 20 minutes, prepare defensive positions
   H. When forced into a defensive mode, consider the possible effects of total involvement of the structure

IV. Hoseline selection and operations
A. Factors affecting hoseline choices  
B. Selecting attack lines  
C. How long a line  
D. Placement of hoselines  
E. Nozzles and appliances  
F. High expansion foam  
G. Class A and compressed air foam systems  
H. Special nozzles  

V. Water supply  
A. Basic principles of pressure  
B. Knowledge of water supply  
C. Terms used in water supply  
D. Large-diameter hose  
E. Applying heavy streams  
F. Flow meters  

VI. Sprinkler systems and standpipe operations  
A. Operations in sprinklered buildings  
B. Fire departments versus sprinklers  
C. Fire department operations  
D. Problems with sprinklers  
E. A suggested strategy  
F. Types of systems  
G. Size-up at sprinklered buildings  
H. Locating and operating controls  
I. Restoration of protection  
J. Standpipe systems  
K. Classes of systems  
L. Operations  
M. Selecting the attack stair  

VII. Ladder company operations  
A. Ladder company functions at structural fires  
B. Ladders  
C. Laddering  
D. Factors affecting ladder selection  
E. Proper climbing angle  
F. Proper tip placement  
G. Materials of construction  
H. Guidelines for the safe use of ladders  
I. Aerial devices  
J. Vent, enter, search  
K. Overhaul  
L. Salvage  
M. Control of utilities
VIII. Forcible entry
   A. Forcible entry size-up
   B. Conventional forcible entry
   C. Through-the-Lock forcible entry
   D. Mul-T-Lock door
   E. Forcing Metal gates and roll-up doors

IX. Search and rescue
   A. Primary and secondary search
   B. Search safety
   C. Thermal imaging cameras
   D. Emergency maneuvers
   E. Gathering information
   F. Search techniques
   G. Secondary search
   H. Guide ropes

X. Firefighter survival
   A. Survival syllabus
   B. Roll calls
   C. Mayday protocols
   D. Rapid intervention teams
   E. Locating missing or trapped firefighters
   F. Team search
   G. Removing unconscious firefighters
   H. Incident commander’s duties

XI. Private dwellings
   A. Venting peaked roofs
   B. Roof design
   C. Making the cut

XII. Multiple dwellings
   A. Roof operations
   B. Fireproof multiple dwellings
   C. Severe wind-driven fire
   D. Duplex, triplex, and sandwich apartments

XIII. High-rise office buildings
   A. High-rise strategic plan
   B. Types of high-rises
   C. Ventilation at high-rise fires
   D. Vertical ventilation
   E. Horizontal ventilation
   F. Using elevators
G. Operations
H. Control of high-rise operations

XIV. Buildings under construction, renovation, and demolition
A. Buildings under construction
B. Structural problems of buildings under construction and renovation
C. Danger of partially occupied structures
D. Buildings undergoing renovation and demolition

XV. Structural collapse
A. Types of buildings
B. Causes of collapse
C. Collapse indicators
D. Establishing collapse zones
E. Types of collapses
F. Collapse rescue operations
G. Collapse rescue plan
H. Street management at collapses
I. Safety precautions during collapse operations
J. Structural collapse rescue plan checklist
K. Collapse survivor interview form

Learning Activities
Learning activities will be assigned to assist the student to achieve the intended learning outcomes through lecture, discussion, hands on exercises, and other activities at the discretion of the instructor.

Grade Determination
The student will be graded on completion of assessment tasks, learning activities, assignments, and examinations.