**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

1. **GENERAL COURSE INFORMATION**

Course Number: MLTR 1921

Course Title: Nuclear Biological & Chemical Operations

Credit Hours: 5

Division and Discipline: Military Programs

Course Description: This course is designed to teach students the primary techniques and skills necessary for analysis, investigation, and defensive operations in areas suspected of Nuclear, Biological, or Chemical contamination. Though extensive study of each critical area, students will gain the skills necessary to predict and determine the extent of possible damages, losses, and personnel injury in a defined population. Students will learn the fundamental techniques of defensive planning, reporting criteria, and the role of advising senior managers of potential threats and possible courses of action. In addition to extensive lectures, hands on training will consist of the proper use, maintenance and deployment of monitoring equipment, including decontamination procedures, and personal/organizational protective measures.

1. **CLASSROOM POLICY**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The college assumes that its students and faculty will demonstrate a code of personal honor, which is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

The college reserves the right to suspend a student for conduct, which is detrimental to the college’s educational endeavors as outlined in the college catalog.

Academic dishonesty on any academic endeavor at Barton Community College will not be tolerated.

Anyone seeking an accommodation under provisions of the Americans with Disabilities Act should notify the instructor and the BCC Coordinator of Instructional services.

For specific College policies and notices concerning: Non-discrimination, Civil Rights Act of 1964, Family Educational Rights and Privacy Act (FERPA), Sexual Harassment, Academic Clemency Policy and Academic Suspension, visit the BCC Ft. Riley website at http:fr.barton.cc.ks.us/.

Student grievance procedure:BCC policy is to secure, at the lowest possible level, equitable solutions to problems during the conduct of our academic and vocational programs. Student concerns that cannot be resolved with the course instructor should be directed to the Program Manager, BCC Military Programs (1-875-239-9769 or the Director of Military Programs (1-785-238-8550).

1. **COURSE AS VIEWED IN TOTAL CURRICULUM**

This course serves as an introduction to nuclear, biological, and chemical emergency response and threat operations. Course provides the student the opportunity to gain knowledge and hands-on training in the management of radiological, chemical, and nuclear response operations, to include disposal, monitoring, clean-up, and programs development

1. **ASSESSMENT OF STUDENT LEARNING/COURSE OUTCOMES**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes

1. Execute data gathering techniques and concepts
2. Conduct and manage emergency response actions
3. Evaluate and manage chemical, biological and radiological hazards
4. **COURSE COMPETENCIES**
5. Execute data gathering techniques and concepts
6. Conduct and supervise radiation monitoring
7. Prepare nuclear fallout predictions
8. Conduct and supervise chemical monitoring
9. Use and maintain chemical agent detection equipment
10. Operate and maintain radiological instruments
11. Conduct and manage emergency response actions
12. Conduct emergency response to chemical release operations
13. Demonstrate chemical containment measures
14. Conduct operations in a chemical/Biological environment
15. Conduct hazardous substance emergency decontamination operations
16. Conduct radiological emergency operations
17. Discuss the safe handling and disposal of biological and chemical agents
18. Explain mass casualty incident procedures
19. Advise managers on biological defense operations
20. Plan and execute chemical/Biological defensive measures
21. Evaluate and manage chemical, biological and radiological hazards
22. Prepare chemical/Biological reports
23. Plot plumes for radiological, biological and chemical incidents
24. Develop an organizational Nuclear, Biological and Chemical readiness program
25. Identify the effects of radiation on electro optical systems
26. Understand and explain the effects of nuclear weapons
27. **INSTRUCTOR EXPECTION OF STUDENTS IN CLASS**
28. **TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE**
29. **REFERENCES**
30. **METHODS OF INSTRUCTION AND EVALUATION**
31. **ATTENDANCE REQUIREMENTS**
32. **COURSE OUTLINE**