Montgomery County Community College EMP 120 Search and Rescue 3-3-0

COURSE DESCRIPTION:

This is a skills-based course that will provide the student with practical knowledge concerning the general responsibilities, skills, abilities, and equipment needed by those involved in search and rescue efforts. The course will also provide the student with practical exercises and search missions where they will be required to utilize the proper equipment and methods. The content of the course includes topics in three major areas: survival, support, and search and rescue. The course will afford the opportunity to discuss and investigate the role of search and rescue in relation to incident management as well as the roles and responsibilities of search and rescue leaders. Students will learn from the experiences of others through actual case analysis.

REQUISITES:

Previous Course Requirements None

Concurrent Course Requirements None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
 Define the components of search and rescue operations and resources. 	Assigned Readings Role-Playing & Field Exercise Lectures Discussions Case Study Analysis AV/Multimedia Materials Internet Field Trips Field Trips Essay Assignments Directed Research Quizzes and Exams	Multiple-Choice Exam Graded Essay Graded Essay Exam Assignments Graded Research Project Individual or Group Presentation Graded Class Discussion Graded Case Study Graded Role-Playing & Field Exercises

LEARN	ING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS		
resp	the major ponsibilities in	Assigned Readings Role-Playing & Field	Multiple-Choice Exam Graded Essay		
sear	rch and rescue	Exercise	Graded Essay Exam		
oper	rations.	Lectures	Assignments		
		Discussions	Graded Research Project		
		Case Study Analysis	Individual or Group		
		AV/Multimedia Materials	Presentation		
		Internet Field Trips	Graded Class Discussion		
		Field Trips	Graded Case Study		
		Essay Assignments	Graded Role-Playing &		
		Directed Research	Field Exercises		
	9 A	Quizzes and Exams			
	cribe the	Assigned Readings	Multiple-Choice Exam		
	ponents of Incident	Role-Playing & Field	Graded Essay		
	nmand System (ICS) their functions.	Exercise	Graded Essay Exam		
and	ineir functions.	Lectures Discussions	Assignments		
		Case Study Analysis	Graded Research Project Individual or Group		
		AV/Multimedia Materials	Presentation		
		Internet Field Trips	Graded Class Discussion		
		Field Trips	Graded Case Study		
		Essay Assignments	Graded Role-Playing &		
		Directed Research	Field Exercises		
		Quizzes and Exams			
4. Diffe	erentiate between at	Assigned Readings	Multiple-Choice Exam		
-	st three types of	Role-Playing & Field	Graded Essay		
	os used in search	Exercise	Graded Essay Exam		
	rescue.	Lectures	Assignments		
		Discussions	Graded Research Project		
		Case Study Analysis	Individual or Group		
		AV/Multimedia Materials	Presentation		
		Internet Field Trips	Graded Class Discussion		
		Field Trips	Graded Case Study		
		Essay Assignments	Graded Role-Playing &		
		Directed Research	Field Exercises		
		Quizzes and Exams			

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS		
5. Identify and use	Assigned Readings	Multiple-Choice Exam		
topographical maps.	Role-Playing & Field	Graded Essay		
	Exercise	Graded Essay Exam		
	Lectures	Assignments		
	Discussions	Graded Research Project		
	Case Study Analysis	Individual or Group		
	AV/Multimedia Materials	Presentation		
	Internet Field Trips	Graded Class Discussion		
	Field Trips	Graded Case Study		
	Essay Assignments	Graded Role-Playing &		
	Directed Research	Field Exercises		
. . . .	Quizzes and Exams			
6. Successfully employ	Assigned Readings	Multiple-Choice Exam		
plotting methods or grid	Role-Playing & Field	Graded Essay		
systems.	Exercise	Graded Essay Exam		
	Lectures	Assignments		
	Discussions	Graded Research Project		
	Case Study Analysis AV/Multimedia Materials	Individual or Group Presentation		
		Graded Class Discussion		
	Internet Field Trips Field Trips	Graded Class Discussion Graded Case Study		
	Essay Assignments	Graded Role-Playing &		
	Directed Research	Field Exercises		
	Quizzes and Exams			
7. Describe the parts of	Assigned Readings	Multiple-Choice Exam		
the compass.	Role-Playing & Field	Graded Essay		
	Exercise	Graded Essay Exam		
	Lectures	Assignments		
	Discussions	Graded Research Project		
	Case Study Analysis	Individual or Group		
	AV/Multimedia Materials	Presentation		
	Internet Field Trips	Graded Class Discussion		
	Field Trips	Graded Case Study		
	Essay Assignments	Graded Role-Playing &		
	Directed Research	Field Exercises		
	Quizzes and Exams			

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
8. Demonstrate mastery	Assigned Readings	Multiple-Choice Exam
and use of the	Role-Playing & Field	Graded Essay
compass.	Exercise	Graded Essay Exam
	Lectures	Assignments;
	Discussions	Graded Research Project
	Case Study Analysis	Individual or Group
	AV/Multimedia Materials	Presentation
	Internet Field Trips	Graded Class Discussion
	Field Trips	Graded Case Study
	Essay Assignments	Graded Role-Playing &
	Directed Research	Field Exercises
	Quizzes and Exams	
9. Define and actually	Assigned Readings	Multiple-Choice Exam
employ in an exercise	Role-Playing & Field	Graded Essay
the six crucial steps in	Exercise	Graded Essay Exam
search and rescue	Lectures	Assignments
management.	Discussions	Graded Research Project
	Case Study Analysis	Individual or Group
	AV/Multimedia Materials	Presentation
	Internet Field Trips	Graded Class Discussion
	Field Trips	Graded Case Study
	Essay Assignments	Graded Role-Playing &
	Directed Research	Field Exercises
	Quizzes and Exams	
10. Differentiate between	Assigned Readings	Multiple-Choice Exam
and apply the two basic	Role-Playing & Field	Graded Essay
categories of search	Exercise	Graded Essay Exam
tactics (Passive vs.	Lectures	Assignments
Active).	Discussions	Graded Research Project
	Case Study Analysis	Individual or Group
	AV/Multimedia Materials	Presentation
	Internet Field Trips	Graded Class Discussion
	Field Trips	Graded Case Study
	Essay Assignments	Graded Role-Playing &
	Directed Research	Field Exercises
	Quizzes and Exams	

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At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that 70% of students will meet or exceed outcome criteria.

SEQUENCE OF TOPICS:

- 1. Introduction to Search and Rescue Management, Incident Command, and the Responsibilities in Search and Rescue
- 2. The Basics of Survival: Clothing, Personal Equipment, Emergency Survival Skills, First Aid and Ready Packs
- 3. Environmental Hazards
- 4. Search Philosophy and Tactics: Land Navigation and Lost Person Navigation
- 5. Search and Rescue Resources
- 6. Personal Floatation Device (PFD): Rescue/Survival Use and Swimming Strokes
- 7. Basic Water Rescue Equipment: Heaving Line, Ring Buoy, Throw Bag, Line Systems, and "Tag" and "Snag" Line
- 8. Factors in Well-Prepared Water Rescue: Personal Clothing, Equipment & Mother Nature
- 9. Team Organization and Rescue Operations
- 10. Potential Accident Site Hazards, Site Access, Types of Rescue and River Hazard Survey Form
- 11. Communications
- 12. Legal Aspects of Searches
- 13. Helicopter Operations
- 14. Practical Exercise

LEARNING MATERIALS:

National Association of Search & Rescue (NASAR). (2005). *Fundamentals of Search and Rescue*. Jones & Bartlett.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL: Prepared by: Benn Prybutok Revised by: Benn Prybutok VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.		5/24/2003 2/3/2009 9/11/2009
Revised by: Benn Prybutok VPAA/Provost or designee Compliance Verification:	Date:	2/2013
VFAA/Provost of designee Compliance Venification. Victoria L. Bastecki-Perez, Ed.D.	Date:	2/25/2013
Revised by: Jayden Sampson VPAA/Provost or designee Compliance Verification:		12/17/2017 12/18/2017

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This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.