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

LE	ARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
2.	List the major responsibilities in	Assigned Readings Role-Playing & Field	Multiple-Choice Exam Graded Essay
	search and rescue	Exercise	Graded Essay Exam
	operations.	Lectures	Assignments
	operations.	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	
3.	Describe the	Assigned Readings	Multiple-Choice Exam
	components of Incident	Role-Playing & Field	Graded Essay
	Command System (ICS)	Exercise	Graded Essay Exam
	and their functions.	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	
4.	Differentiate between at	Assigned Readings	Multiple-Choice Exam
	least three types of	Role-Playing & Field	Graded Essay
	maps used in search	Exercise	Graded Essay Exam
	and 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 Directed Research	Graded Role-Playing & Field Exercises
			Field Exercises
		Quizzes and Exams	

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
Identify and use topographical maps.	Assigned Readings Role-Playing & Field	Multiple-Choice Exam Graded Essay
	Exercise Lectures	Graded Essay Exam 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	M 10 1 01 1 5
6. Successfully employ	Assigned Readings	Multiple-Choice Exam
plotting methods or grid systems.	Role-Playing & Field Exercise	Graded Essay Graded Essay Exam
Systems.	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
7 December the newto of	Quizzes and Exams	Multiple Chains Even
7. Describe the parts of the compass.	Assigned Readings Role-Playing & Field	Multiple-Choice Exam Graded Essay
the 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	

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	

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
11. Describe and apply the primary types of active	Assigned Readings Role-Playing & Field	Multiple-Choice Exam Graded Essay
search tactics.	Exercise Lectures	Graded Essay Exam Assignments
	Discussions Case Study Analysis	Graded Research Project Individual or Group
	AV/Multimedia Materials Internet Field Trips	Presentation Graded Class Discussion
	Field Trips Essay Assignments	Graded Case Study Graded Role-Playing &
	Directed Research Quizzes and Exams	Field Exercises
12. Describe and apply the	Assigned Readings	Multiple-Choice Exam
techniques and methods used by	Role-Playing & Field Exercise	Graded Essay Graded Essay Exam
searchers.	Lectures Discussions	Assignments Graded Research Project
	Case Study Analysis	Individual or Group
	AV/Multimedia Materials Internet Field Trips	Presentation Graded Class Discussion
	Field Trips Essay Assignments	Graded Case Study Graded Role-Playing &
	Directed Research Quizzes and Exams	Field Exercises
13. List and demonstrate both searching and	Assigned Readings Role-Playing & Field	Multiple-Choice Exam Graded Essay
tactical skills needed by	Exercise	Graded Essay Exam
field searchers.	Lectures Discussions	Assignments Graded Research Project
	Case Study Analysis AV/Multimedia Materials	Individual or Group Presentation
	Internet Field Trips	Graded Class Discussion
	Field Trips Essay Assignments	Graded Case Study Graded Role-Playing &
	Directed Research Quizzes and Exams	Field Exercises
14. Explain, and demonstrate in an	Assigned Readings Role-Playing & Field	Multiple-Choice Exam Graded Essay
exercise how	Exercise	Graded Essay Exam
knowledge of lost person behavior can be	Lectures Discussions	Assignments Graded Research Project
an advantage to the	Case Study Analysis	Individual or Group
searcher.	AV/Multimedia Materials Internet Field Trips	Presentation Graded Class Discussion
	Field Trips	Graded Case Study
	Essay Assignments Directed Research	Graded Role-Playing & Field Exercises
	Quizzes and Exams	

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
- 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 Date: 5/24/2003 Revised by: Benn Prybutok Date: 2/3/2009 VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr. Date: 9/11/2009

Revised by: Benn Prybutok Date: 2/2013

VPAA/Provost or designee Compliance Verification:

Victoria L. Bastecki-Perez. Ed.D. Date: 2/25/2013

Revised by: Jayden Sampson Date: 12/17/2017 VPAA/Provost or designee Compliance Verification: Date: 12/18/2017

Wal-fews

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.