EMS 240
Fall B Session 2016

Instructor: Danny Webster
Office: AHB 307I
Class Times
Lecture: Online
Lab:

B01: T: 9:00 – 11:45
B02: T: 18:00 – 20:45
Phone: 410-572-8738
Email: dwebster@worwic.edu
Office Hours:
M: 8:15 – 8:45 am
M: 1:30 – 2:30 p.m.
T: 1:00 – 2:00 p.m.
R: 10:00 – 12:30 p.m.
Other Hours by Appointment

Syllabus
Crisis Operations
(2 Credits)

Texts


The Maryland medical protocols for emergency medical services providers. (2016). Maryland: MIEMSS.

Course Description
This course prepares students to effectively manage stressful emergencies such as mass casualty accidents. Topics include resource management, ambulance operations, medical incident command, rescue awareness, hazardous materials incidents and crime scene awareness. Hours: 26 lecture and 16 laboratory. Prerequisites: BIO 115 (can be taken concurrently with EMS 240), or permission of the dean. Laboratory fee: $55. Materials fee: $100. Usually offered in the fall.
**Required Supplies**
NFPA approved fire protection gear (turnout gear) is required for certain modules of the laboratory portion of the course.

**Course Objectives**
Upon completion of the course the student will:

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<tr>
<th>Course Objective</th>
<th>Assessment Goals</th>
<th>Assessment Strategies</th>
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</thead>
</table>
| 1. Demonstrate an understanding of standards and guidelines that help ensure safe and effective ground and air medical transport. *GEO 3 & 4* | A. Identify the conditions in which air transport should be considered.  
B. Describe the various considerations for preparing for air transport.  
C. Identify standards of ambulance design.  
D. Compare and contrast the three types of ambulances.  
E. Discuss the importance of ambulance maintenance and inventory accountability.  
F. List the factors that contribute to safe vehicle operations.  
G. Discuss the concept of due regard when operating an emergency vehicle. | 1. Lab Scenarios  
2. Vehicle driving course activity in lab  
3. Online quizzes  
4. Research Assignment  
5. Exam 1  
6. Final Examination |
| 2. Demonstrate the ability to integrate the principles of general incident management and multiple casualty incident (MCI) management techniques in order to function effectively at major incidents. *GEO 4* | A. Explain the need for the incident management system (IMS)/incident command system (ICS) in managing emergency medical services incidents.  
B. Define the term multiple casualty incident (MCI).  
C. Describe essential elements of scene size-up when arriving at a potential MCI.  
D. Describe the functional components of the incident management system in terms of the following:  
  - Command  
  - Finance  
  - Logistics  
  - Operations  
  - Planning  
E. Differentiate between singular and unified command and when each is most applicable.  
F. Describe the role of command  
G. List and describe the functions of the following groups and leaders in ICS as it pertains to EMS incidents:  
  - Safety  
  - Logistics  
  - Rehabilitation  
  - Staging  
  - Treatment  
  - Triage  
  - Transportation  
  - Extrication/ rescue  
  - Disposition of deceased (morgue)  
  - Communications  
H. Utilize START Triage  
I. List the physical and psychological signs of critical incident stress. | 1. START Triage Drill-Lab  
2. Online Scenario Builder-Lab  
3. Blackboard Quizzes  
4. Exam 1  
5. Final Exam |
<table>
<thead>
<tr>
<th>Exercise</th>
<th>Description</th>
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<tbody>
<tr>
<td>Auto Extrication Scenario- Lab</td>
<td>1. Demonstrate the ability to integrate the principles of rescue awareness and operations to safely rescue a patient from water, hazardous atmospheres, trenches, highways, and hazardous terrain. GEO 2 &amp; 4</td>
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<tr>
<td>Water Rescue- Lab</td>
<td>2. Define the term rescue.</td>
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<tr>
<td>Blackboard Quiz</td>
<td>3. Explain the medical and mechanical aspects of rescue situations.</td>
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<td>Exam 2</td>
<td>4. Describe the phases of a rescue operation.</td>
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<td>Final Exam</td>
<td>5. List and describe the types of personal protective equipment needed to safely operate in the rescue environment to include.</td>
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<td>6. Explain the differences in risk between moving water and flat water rescue.</td>
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<td>7. Explain the effects of immersion hypothermia on the ability to survive sudden immersion and self-rescue.</td>
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<td>8. Explain the phenomenon of the cold protective response in cold water drowning situations.</td>
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<td>9. Identify the risks associated with low head dams and the rescue complexities they pose.</td>
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<td>10. Given a picture of moving water, identify and explain the following features and hazards associated with:</td>
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<td>11. Hydraulics</td>
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<td>12. Strainers</td>
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<td>13. Dams/ hydro-electric sites</td>
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<td>14. Explain the rescue techniques associated with reach-throw-row-go.</td>
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<td>15. Given a list of rescue scenarios, identify the victim survivability profile and which are rescue versus body recovery situations.</td>
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<td>16. Given a series of pictures identify which would be considered &quot;confined spaces&quot; and potentially oxygen deficient.</td>
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<td>17. Identify the poisonous gases commonly found in confined spaces.</td>
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<td>18. Explain the hazard of cave-in during trench rescue operations.</td>
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<td>19. List and describe the hazards associated with the following auto/ truck components.</td>
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<td>20. Given a diagram of a passenger auto, identify the following structures:</td>
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<td>21. A, B, C, D posts</td>
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<td>22. Fire wall</td>
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<td>23. Unibody versus frame designs</td>
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<td>25. Describe the electrical hazards commonly found at highway incidents.</td>
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<td>26. Explain the difference between tempered and safety glass, identify its locations on a vehicle and how to break it safely.</td>
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<td>27. Explain typical door anatomy and methods to access through stuck doors.</td>
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<td>28. Explain SRS or &quot;air bag&quot; systems and methods to neutralize them.</td>
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<td>29. Describe the procedure for stokes litter packaging for low angle evacuations.</td>
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<td>30. Explain techniques to be used in non-technical litter carries over rough terrain.</td>
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<td>31. Explain assessment procedures and modifications necessary when caring for entrapped patients.</td>
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| 4. Demonstrate the ability to evaluate hazardous materials emergencies, call for appropriate resources, and work in the cold zone. GEO 1, 2, 3 & 4 | A. Explain the role of the paramedic/EMS responder in a Haz-Mat Situation.  
B. Size-up a hazardous materials (haz-mat) incident and determine hazards to the provider, crew, patient and public, risks of primary and secondary contamination to patients and rescuers.  
C. Identify resources for substance identification, decontamination and treatment information  
D. List and describe the routes of exposure.  
E. Explain how the substance and route of contamination alters triage and decontamination methods.  
F. Identify local facilities and resources capable of treating patients exposed to hazardous materials.  
G. Determine the appropriate level of PPE  
H. Explain decontamination procedures  
I. Explain the four most common decontamination solutions used.  
J. Identify the areas of the body difficult to decontaminate.  
K. Explain the medical monitoring procedures of hazardous material team members to be used both pre and post entry.  
L. Explain the documentation necessary for Haz-Mat medical monitoring and rehabilitation operations.  
M. Given a simulated hazardous substance, use reference material to determine the appropriate actions.  
N. Integrate the principles and practices of hazardous materials response in an effective manner to prevent and limit contamination, morbidity, and mortality. |
|---|---|
| 5. Demonstrate an understanding of an awareness of the human hazard of crime and violence and the safe operation at crime scenes and other emergencies. GEO 4 | A. Explain how EMS providers are often mistaken for the police.  
B. Explain specific techniques for risk reduction when approaching potentially unsafe scenes.  
C. Describe warning signs of potentially violent situations.  
D. Explain emergency evasive techniques for potentially violent situations.  
E. Explain EMS considerations for the violent or potentially violent situations.  
F. Explain the following techniques:  
  • Field "contact and cover" procedures during assessment and care  
  • Evasive tactics  
  • Concealment techniques  
G. Describe police evidence considerations and techniques to assist in evidence preservation. |
| Specific learning outcomes from this course as defined by the USDOT/National Highway Traffic Safety Administration’s National Standard curriculum Paramedic can be viewed online at [http://www.ems.gov](http://www.ems.gov) | 1. HAZ-MAT Drill- Lab  
2. Online Scenario Builder-Lab  
3. Blackboard Quizzes  
4. Exam 2  
5. Final Exam  
1. Lab Scenario  
2. Online Discussion Posting  
3. Blackboard Quizzes  
4. Final Exam |
Course Structure
The lecture portion of this course is delivered via Blackboard. Students will need certain technological knowledge, equipment, and software as listed below. If the student does not have the equipment/software available, they may use the college’s Computer Lab or the Media Center in any of the academic buildings.

Students need:
1. Basic knowledge of the Internet and computers
2. A personal computer: A Pentium-based processor and Windows 98 or greater with a printer and a modem.
3. Internet access through an Internet Service Provider
4. Microsoft Internet Explorer 4.0 or greater.

Blackboard is being used as a supplementary site in this course. To access course content in Blackboard you need to have access to a computer with an Internet connection, (other requirements may apply). Computers that meet these requirements are available on campus in BH 217, HH 100, GH 204, WDC 305, and AHB 108.

Please follow these directions to access course syllabi and any other materials posted for this course:

Login Information
1. From Wor-Wic home page, point to "Quick Links" (top-right) and click the “Blackboard Login” link.
2. Enter your Wor-Wic user ID and password (same as your Wor-Wic email user ID and password). Don't know your user ID or password? Contact Student Services

Course Requirements
For successful completion of the course, students are expected to:

1. Complete all course assignments with a minimum grade average of 75%;
2. Complete the clinical and laboratory portions with a grade of 75% or better;
3. Complete all required examinations;
4. Students must complete all online quizzes;
5. Demonstrate proficiency in all required skills stations for the course;
6. Complete an electronic research assignment;
7. Complete all homework assignments;
8. Abide by the attendance policy of the course; and
9. Abide by the testing policy.

Attendance/Participation
Students are expected to attend six lab sessions; therefore attendance records will be maintained. A point system will be maintained related to attendance relative to expected classroom participation in discussions, forums and/or activities. The points per class session equal five (5). The six lab sessions will total thirty (30) points. Any absence will result in zero (0) points for that date. The student must complete, by the due date, the weekly online activities to earn the lecture participation points. Submission of late assignments online, late arrivals or early departures to lab will result in a one and a half (1.5) point reduction of points per occurrence. Students will be
responsible for all information covered during their absence. The total attendance/participation points will be included in course grading, designated as the Interpersonal Domain.

Students are expected to act and perform in a professional manner while in class, lab, and clinical. Repeated episodes of in-class disruption will be considered a valid reason for dismissal from the class session. Pagers (including fire department pagers) and cell phones must be placed in silent mode during lecture and lab sessions. **Talking on cell phones or send text messages during class (lecture or lab) is prohibited.**

**Communication with Your Instructor**
If you have any questions about the course, assignments or examinations, please email me through the Blackboard course email. Unless an emergency arises, I will respond to your email within 48 hours. You may call Ms. Stacy Ennis at 410-572-8740 or my office and leave a message. Since I am not on campus every day, I may not respond to these messages immediately. Please contact me if you would like a face-to-face meeting.

**Technical Help and Distance Education Information**
For technical help and distance education information, please refer to Wor-Wic Community College Credit Distance Education webpage at:  
[http://www.worwic.edu/Academics/DistanceEducation/CreditDistanceEducation.aspx](http://www.worwic.edu/Academics/DistanceEducation/CreditDistanceEducation.aspx)

**Grading Policy**
The student’s grade will be determined on a weighted basis as specified below:

- 2 Exams: 40%
- Research Assignment: 10%
- FISDAP Ops Exam: 5%
- Homework/Quizzes: 15%
- Comprehensive Final: 25%
- Interpersonal Domain: 5%

Letter grades are awarded as follows:

- A = 90 – 100%
- B = 80 – 89%
- C = 75 – 79%
- D = 74 – 65%
- F = < 65%

**Testing Policy**
There will be two (2) lecture exams and one (1) comprehensive final exam. Exams will be in the form of true/false, multiple choice, fill in, and/or essay. During exams, students are not permitted to utilize any electronic device, i.e. calculators, PDA’s, cell phones, pagers, etc. If the student is observed utilizing any such device during an examination, he or she will have the exam collected and will be dismissed from the examination site. **No Exceptions.** During week six of the semester, students will take the FISDAP examination online. Students are encouraged to put forth their best effort into the examination. This examination will test your knowledge of the operations module of the program. The examination will be worth 5% of the final course grade.
**Examination Make-up Policy (GEO 8)**

Students who miss a scheduled exam may take a comprehensive make-up examination at the discretion of the instructor. Make up examinations will be administered in the EMS Program Office (AHB 307). If a student fails to complete the exam during the agreed time period, the student will receive a grade of ‘0’ for the exam. *No Exceptions.*

**Emergency Information Statement:**

In the event of severe inclement weather or other emergency, information about the closing of the college will be communicated via e2Campus and the College's website. Faculty will communicate with students about their courses and course requirements, such as assignments, quiz and exam dates, and class and grading policies, via Blackboard. Students will be responsible for completing all assignments in accordance with class policies.

**Research Project**

Each student is required to participate in a research assignment. Using the Wor-Wic Electronic Database, students will research a topic on EMS operations. Additional information will be provided during the second week of class. The assignment is due **October 9, 2016 at 11:59 p.m. via electronic submission in blackboard. Assignments must be submitted as a docx, doc, rtf or pdf file and in APA format.**

**Academic Integrity and Computer Usage**

Academic integrity is expected of all students. Cheating and plagiarism are violations of academic integrity. Any student who has violated the academic honesty policy will be denied credit for the assignment, and then the matter will be turned over to the Student-Faculty Disciplinary Committee. Documented evidence of the offense will be kept in the Emergency Medical Services Department office.

All students logging into Blackboard affirm that they understand and agree to follow Wor-Wic Community College policies regarding academic integrity and the use of College resources as described in the college catalog. Wor-Wic Community College considers the following as violations of the computer usage policy:

- Using the campus computing network and facilities to violate the privacy of other individuals.
- Sharing of account passwords with friends, family members or any unauthorized individuals

Violators are subject to college disciplinary procedures.

**Plagiarism** is defined as copying or imitating the language, ideas or thoughts of another author and presenting them as one’s original work or the copying of another’s words in any medium without documenting the borrowing and thus failing to give credit to the original author in proper format (such as MLA or APA documentation format). Each instructor will be available for consultation regarding any confusion a student may have before submitting an assignment. Students are encouraged to use all available resources, including the instructor, assignment directions, handouts, suggested web resources and media center and/or writing center staff for help in avoiding plagiarism.

**Cheating** is defined as the act of obtaining information or data improperly or by dishonest or deceitful means. This includes the intentional use or attempted use of unauthorized materials,
information or study aids in any academic exercise. This ALSO includes helping or attempting to help another student to cheat or submitting the same paper for two different classes without the explicit authorization/approval of both instructors, etc. (see college catalog). Each instructor will be available for consultation regarding any confusion a student may have before submitting an assignment.

**On-Line Course Evaluation**

The College has selected SmartEvals as its vendor to conduct online end-of-course evaluations. SmartEvals maintains the highest level of security with the evaluation information, and the information resides only on SmartEvals’ computer servers. Faculty are unable to identify individual evaluations, and any data which has the potential to reveal the identity of a student (i.e. the only male in a class) is blocked from viewing.

You will receive automated emails from SmartEvals reminding you to complete your evaluations, and the timing of the emails is in compliance with anti-spam guidelines. The emails discontinue once all of your evaluations are completed.

You will be able to access the evaluations through the link in the SmartEvals email or by clicking on “course evaluation” in the left menu of your Blackboard course website. The evaluations are only active during designated times at the end of the semester.

Disable the pop-up blockers on your internet browser in order to access the evaluation. Your cooperation in completing the online evaluation at the designated time is greatly appreciated. The results from the course evaluation provide valuable feedback to your instructor in order to make changes as needed with curriculum and teaching. Please direct any questions about the online course evaluation system to Hope Ellis at hellis@worwic.edu

**Services for Students with Disabilities**

Wor-Wic provides reasonable accommodations for students with disabilities, in compliance with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. If you are in need of accommodations, please contact the counseling office at (410) 334-2899. For more information, see Wor-Wic's Services for Students with Disabilities web page.
## Online Course Topics (Tentative)

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EMS 201 Review Part 1</td>
<td>Vol. 1: Chapters 1-7;</td>
</tr>
<tr>
<td>2</td>
<td>EMS 201 Review Part 2</td>
<td>Vol. 1: Chapters 11-13</td>
</tr>
</tbody>
</table>
| 3    | Ambulance Operations  
Medical Incident Command | Vol. 2: Chapters 57, 61 and 62 |
| 4    | Rescue Operations | Vol. 2: Chapter 63 |
| 5    | HazMat Operations | Vol 2: Chapter 64 |
| 6    | Exam #2 (CO 3 & 4)  
Crime Scene Awareness | Vol. 2: Chapter 59 |

## Lab Topics (Tentative)

<table>
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Medical Incident Command  
Exam #1 (CO 1 & 2) | Vol. 2: Chapters 57, 61 and 62 |
| 4    | Rescue Operations | Vol. 2: Chapter 63 |
| 5    | HazMat Operations  
Exam #2 (CO 3 & 4) | Vol. 2: Chapter 64 |
| 6    | Crime Scene Awareness  
Advanced Airway Lab  
Final Exam (CO 1-5) | Vol. 2: Chapter 59  
Vol. 1: Chapter 14 |