UNIVERSITY OF MARYLAND
MARYLAND INSTITUTE FOR EMERGENCY MEDICAL SERVICES SYSTEMS

R ADAMS COWLEY, M.D., DIRECTOR

Shock Trauma Center
CNS Center
Traumatology
Critical Care
Critical Care Nursing
Hyperbaric Medicine
Medical Engineering
Research & Development
Operations Research/
Systems Analysis
EMS Systems
Education
Training
Communications
Transportation
Administration
Evaluation

REMINDER

REMEMBER TO COME VISIT THE EHS PROGRAM AT UMBC!

DATE: November 25, 1980

TIME: 2:30 - 5 p.m.

LOCATION: Room 305, Academic Four, UMBC

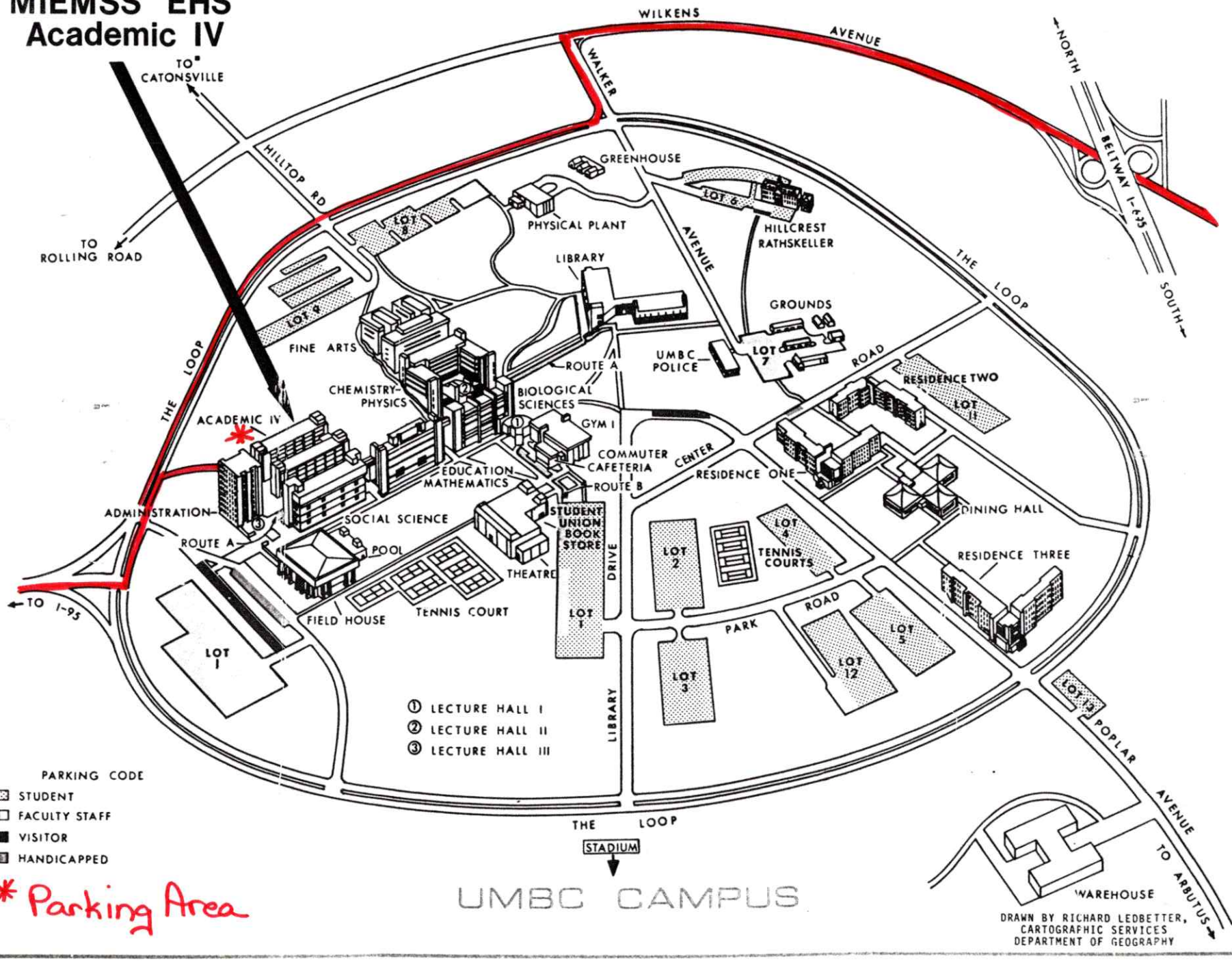
WHAT: Cider, Doughnuts, Wine, Cheese

Directions: Wilkens Avenue west past the Beltway to sign that says University of Maryland. Turn left onto Walker Avenue and then right onto The Loop. Park either alongside of Academic IV in the gravel area or on The Loop. See attached map for location of Academic IV Building and parking area.

Alternate Directions: I-95 South and exit at Rt. 166 toward Catonsville; follow sign to UMBC.

22 S. GREENE STREET • BALTIMORE, MARYLAND 21201 • AREA CODE 301 528-6846

MIEMSS EHS
Academic IV



PARKING CODE
- STUDENT
- FACULTY STAFF
- VISITOR
- HANDICAPPED

* Parking Area

UMBC CAMPUS

DRAWN BY RICHARD LEDBETTER,
CARTOGRAPHIC SERVICES
DEPARTMENT OF GEOGRAPHY

umbc UNIVERSITY OF MARYLAND BALTIMORE COUNTY
Catonsville, Maryland 21228
Emergency Health Services Program/MIEMSS (301) 455-3223

NOTICE OF DATE FOR APPLICATION TO EHS PROGRAM

APPLICATIONS OF STUDENTS WHO WISH TO BE CONSIDERED AS MAJORS IN THE EMERGENCY HEALTH SERVICES PROGRAM FOR THE FALL, 1981 SEMESTER AT THE UNIVERSITY OF MARYLAND BALTIMORE COUNTY, MUST BE RECEIVED IN THE PROGRAM OFFICE NO LATER THAN MONDAY, FEBRUARY 9, 1981. UPON COMPLETION OF 45 CREDIT HOURS, STUDENTS IN GOOD STANDING AND WHO HAVE BEEN FORMALLY ADMITTED TO UMBC MAY APPLY FOR ADMISSION TO THE PROGRAM.

THE FOLLOWING MUST BE RECEIVED BY THE ABOVE DATE FOR STUDENTS WHO DESIRE TO BECOME MAJORS FOR THE FALL SEMESTER, 1981:

1. Completed application form
2. Two-page essay on goals and reasons for selecting the Emergency Health Services program major
3. Transcript (official) showing satisfactory completion of at least 45 credit hours of requirements.
4. Plan for completing 15 more credit hours of requirements before September, 1981
5. Statement on availability for personal interview*

ALL COMPLETED APPLICATIONS WILL BE REVIEWED AND PERSONAL INTERVIEWS WILL BE SCHEDULED. IT IS ANTICIPATED THAT SELECTION OF MAJORS WILL BE ANNOUNCED AT THE BEGINNING OF MAY, 1981. CURRENTLY, IT IS PLANNED TO SELECT 25 MAJORS FROM THE APPLICANTS. CRITERIA TO BE USED IN THE SELECTION PROCESS ARE AS FOLLOWS:

1. Good standing and better (GPA must be equal to or greater than 2.0 to apply.)
2. Personal interview with EHS Faculty
3. Written 2-page essay
4. Likelihood of completing the required pre-program requirements (60 credits) before September, 1981
5. Likelihood of completing the entire program in a timely manner

SEND APPLICATION INFORMATION TO:

EHS PROGRAM, UMBC, CATONSVILLE, MD 21228

(*Out-of-state students please contact EHS office for alternative arrangements)

umbc UNIVERSITY OF MARYLAND BALTIMORE COUNTY
Catonsville, Maryland 21228

June 1980

Dear Interested Student:

Enclosed you will find the most current information on the Emergency Health Services Program to be offered at the University of Maryland, Baltimore County (UMBC). The program was recently approved by the Maryland State Board of Higher Education and final development is under way.

You will find copies of present program policies related to selection of majors in the Emergency Health Services Program (EHS) as well as a listing of program requirements and prerequisites effective June 1980.

Due to the newness of the program, prerequisite courses and an introductory EHS course will be available at UMBC beginning Fall of this year. During this academic year, students who may be interested in selecting EHS as a major, who have completed the required 45 credit hours, and have been formally admitted to UMBC may apply for admission into the program as indicated on the accompanying "program policies" sheet. Review of potential major students will be made on a systematic basis, and it is anticipated that the first group of majors, limited to 25 in number, will be notified of their admission into the Program in late Spring of 1981.

Information related to the University of Maryland, Baltimore County, including course descriptions, facilities, financial arrangements, housing, etc. may be found in the school catalog. Information regarding University policies on transfer of credits may be obtained from the Admissions Office of the University of Maryland, Baltimore County; pre-transfer advice is encouraged and can be obtained from Stephanie Gates in that office.

Criteria for transfer of credits related to the specific Emergency Health Services courses are under development and will be available at a later date. EHS Program Faculty will be present at UMBC for appointments beginning late July.

We thank you for your interest in the program.

Sincerely yours,

Dorothy L. Gordon

Dorothy L. Gordon, D.N.Sc.
Director of EHS Program

DLG/dl
Enclosure(s)

Program Policies
On
Student Admission
Into The
Emergency Health Services Program

Student admission into the Emergency Health Services Program is on a competitive basis. Subscription is limited to twenty-five (25) students per year. Satisfactory completion of prerequisites does not guarantee admission into the program. Upon completion of 45 credit hours, students in good standing and who have been formally admitted to UMBC may apply for admission to the program:

Student selection will be based on:

1) Good standing: GPA $\geq$ 2.0

2) Completion of 60 credits including prerequisites

3) Personal interview with EHS Faculty

4) Written 2-page essay on goals and reasons for selecting Emergency Health Services

6/6/80

EMERGENCY HEALTH SERVICES PROGRAM

(Bachelor of Science)

PROGRAM REQUIREMENTS

	Credits
Basic Sciences	25
Social Sciences/Political Science	24
Methods and Statistics	4
Emergency Health Services	30
Electives and other requirements	37
	120

EMERGENCY HEALTH SERVICES PROGRAM

(Bachelor of Science)

Pre-Emergency Health Requirements

	Credits	UMBC Course Number
Sciences		
Biology**	8	BIOL 0100, (M)1100 BIOL 0275, (M), or 0291, 0233, 0310
Chemistry**	9	CHEM 0123, 0124, (M) CHEM 1124
Social Sciences/Political Science		
Sociology	6	SOCY 0101,**, (S), 251, (S)
Psychology	7	PSYC 0100, **, (S), 0285, (S)
Political Science**	3	POLI 0100, (S), OR 0110, (S) (Old 0102) (Old 0101)
Methods		
Statistics	4	STAT 0121 (M) *
Emergency Health Services		
EHS	3	EHS 0200**
Others and Electives		
English	3	ENG 0100**
Speech***	3	SPCH 0100
Economics	6	ECON 0121, 0122
Electives****	8	
	60	

* Prerequisite is Math 103 (College Preparatory Math) or Pass Math diagnostic test.

** Prerequisites for Courses in EHS Program

*** Students with one year of speech in high school may substitute a three credit elective (Furnish a transcript)

**** Select from Fine Arts/Humanities to meet GDR; Math 103 if necessary.

EMERGENCY HEALTH SERVICES PROGRAM

(Bachelor of Science)

Program Requirements

	Credits	UMBC Course Number
Sciences		
Anatomy & Physiology	8	ANPH 0101, 0102
Social Sciences/Political Science		
Political Science	6	POLI 0250, 0354 (Old 350)
Sociology	3	SOC 0352
Methods		
Epidemiology	3	SOC 0420 (S)
Emergency Health Services		
Emergency Health Services	27	EHS 201, 300, 301, 400, 450
Others and Electives		
English	3	ENG 0300 (H)
Education/Learning*	3	EDUC 0301 or 0340
Electives**	7	Upper Level
	60	

* Highly Recommended
** May need to select to meet GDR

EMERGENCY HEALTH SERVICES
SPECIMEN SCHEDULE

YEAR	FALL	CREDITS	SPRING	CREDITS
I	BIOL 100	(3) →	BIOL 275, (or others)	(3)
	BIOL 1100	(2)	STAT 121	(4)
	ENGL 100	(3)	SOC 251	(3)
	SOC 101	(3)	SPEECH 100	(3)
	MATH 103 (If needed)	(3)	POLI 0100 or 0110	(3)
	(Or)			
	ELECTIVE (If Math dx) (Test passed)			
		(14)		(16)
II	CHEM 123	(4) →	CHEM 124	(3)
	EHS 200	(3)	CHEM 1124	(2)
	PSYC 100	(4) →	PSYCH 285	(3)
			ELECTIVES	(5)
	ECON 121	(3) →	ECON 122	(3)
		(14)		(16)
III	ANPH 101	(4) →	ANPH 102	(4)
	EHS 201	(4) →	EHS 300	(3)
	POLI 250	(3) →	EHS 301	(2)
	SOC 0420	(3)	ELECTIVE (Upper Level)	(3)
			POLI 354	(3)
		(14)		(15)
IV	EHS 400	(3) →	EHS 450	(15)
	SOC 352	(3)		
	ENGL 300	(3)		
	Upper Level-Elective	(4)		
	Upper Level-Elective	(3)		
		(16)		

Key: Necessary sequence of courses →

6/6/80

EMERGENCY HEALTH SERVICES COURSE DESCRIPTION

EHS 200 Introduction to Emergency Health Services (3)

1st + 2d sem. A survey course providing an overview of the operation of Emergency Medical Service systems--delivery of services and echelons of care--and their impact on the health care delivery system. It will also introduce management concepts central to EMS systems--such as triage, communications systems, 24-hour availability, continuity of care, and risk management. This course will include observation of field activities.

EHS 201 Clinical Practice Concepts (4)

2d sem. This course will introduce the students to clinical concepts necessary for the understanding of emergency health care--such as emergency, trauma, and crisis. Included will be both the didactic and laboratory elements of the State of Maryland Emergency Medical Technician--Ambulance certification course, record-keeping, rights and privacy and rights of information. (course includes laboratory sessions)

w. sem + possib. sum.

EHS 300 Emergency Health Services Theory and Practice (3)

Analysis of the 15 components of the EMS system in the United States. History and development of the EMS field with analysis of the EMS Systems Act and different system models. Examination of federal, state and local authority for the delivery of services, the interface of public and private organizations and the relationship of public health and public safety. Examination of the management role in EMS Systems. Prerequisite: EHS 200

at least once a year

EHS 301 Planning Emergency Health Systems (2)

Planning and development of an Emergency Medical Services system within a specific geographic area. Students will plan the various segments of a system within a designated area--field research will be done as background to modeling of a system. Prerequisite: EHS 200, Pre or Co-requisite: EHS 300

Sept 81

once a year

In process of dev.:

Electives:

2d sem.

Crisis Intervn.

Disaster Management

Stress " for Field Personnel

Medical Make-up.

EHS 400 Emergency Health Services Theory and Practice II (3)

Further development of theory and techniques central of EMS management-program development; management skills; program implementation; evaluation; manpower training and resource allocation. Prerequisite: EHS 300

EHS 450 Emergency Health Services Practicum (15)

This total semester, senior-year course is a blending between field work in Emergency Medical Services and integrating seminar. Planned to be included is the EMT-A refresher course; supervised on-site experience in EMS management situations; seminar sessions integrating knowledge, skill and values, and special topics, such as certification and training issues, grantsmanship, and legal issues. Prerequisite: Completion of all other EHS courses.

J. Mitchell
MIEMSS/UMBC EHS Program

EHS 200 INFORMATION

FALL, 1980

Course Description:

EHS 200 — Introduction to Emergency Health Services — 3 credits

A survey course providing an overview of the operation of Emergency Medical Service systems--delivery of services and echelons of care--and their impact on the health care delivery system. It will also introduce management concepts central to EMS systems--such as triage, communications systems, 24-hour availability, continuity of care, and risk management. The course will include field observations.

↘ amb o unit
possible helicopte

EMERGENCY HEALTH SERVICES

5000 EHS 0200 0101 03.0 TUE: 2:00 p.m.-3:15 p.m. AC 150
INTRO EMERG HLTH SRVCS THU: 2:00 p.m.-3:15 p.m. AC 150
Staff p/f-Perm; NO AU

Prerequisite: None

TEXT: No Required Text
INSTRUCTOR: Jeffrey T. Mitchell, M.S.
OFFICE: 311 Academic Building IV
PHONE: 455-3223 (office), 242-8478 (Home)

OFFICE HOURS:
MON: 10:00 a.m.-12:00 Noon
TUE: 10:00 a.m.-12:00 Noon
THU: 3:30 p.m.-4:30 p.m.

(Other hours by appointment)

COURSE OBJECTIVES:

At the completion of this course:

1) Students will be able to demonstrate an understanding of general systems theory, the EMS program as a system in particular and the history of EMS at the local and national levels.

2) Students will demonstrate a broad general level of knowledge regarding the fifteen component parts of an EMS system including types of training, communications, facilities, critical care centers, and public education and information.

3) Students will be familiar with a variety of equipment utilized in the field of EMS. They will be able to name the pieces and describe their characteristics and uses. They will also experience classroom and field observations of several demonstrations of EMS equipment.

4) Students will be able to describe a number of administrative and management concepts such as standardization, standards of care, categorization, planning, the echelons of care, triage, system evaluation, medical control, accountability and standard record keeping. They will further be able to relate these concepts to EMS.

GRADING SCALE

90-100	= A
80-89	= B
70-79	= C
60-69	= D
0-59	= F

REQUIREMENTS - GRADING

1. Class attendance-Points will be lost for missed classes without instructor's approval.
2. Term paper 25% of grade
3. Mid-Term 25% of grade
4. Final 25% of grade
5. Reports (5) 25% of grade
   (Each article report is worth 5 points Maximum. A failure to hand in an article report automatically lowers the grade by 5 points).
6. Readings as assigned.

NOTES REGARDING TERM PAPER

1. 5-10 pages (8½ x 11)
2. Must be typed (double spaced)
3. Must have a bibliography (use an acceptable format such as Turabian or APA).
4. All term papers are due NO LATER THAN December 4, 1980, but may be handed in earlier.
5. The student must have two copies of term paper.
   1 - For Instructor
   1 - For Student

CRITERIA FOR GRADING TERM PAPERS:		Points
Structure	Introduction	1
	Body	1
	Summary	1
	Bibliography	1
	Neatness	1
Content	Completeness	2
	Grasp of concepts	3
	Organization of material	3
	Conclusions drawn	3
	Evaluation of EMS material	3
	Originality of presentation	2
	Relativity of material	2
	Use of English language	2
		25

NOTES REGARDING REPORTS

- Three (3) reports must be on journal articles and must, of course, relate directly to the field of EHS.
- Two (2) reports may be on any of the following:

  a) a newspaper report specifically related to EMS

  or

  b) a report on a visit to an EMS related facility (e.g., E.R., Acute Care Center, Fire Rescue Dept.)

  or

  c) a report on how other disciplines relate to EMS

  or

  d) other (with prior approval of instructor)

-Each report must:

1) be one page in length (minimum)
2) be typed, double spaced
3) be handed in on time
4) note clearly the source of the report

EHS 0200

FALL 1980 SYLLABUS

J. Mitchell
MIEMSS/UMBC EHS Program

Tuesday September 2 - Introduction, Requirements, Assignments

Thursday Sept.4 - General Systems Theory, EMS as a System, Early History of EMS

Tuesday Sept.9 - American Red Cross, DOT, Fed. EMS, Md. EMS Overview

Thursday Sept. 11 - *Report #1 due*, Md. EMS History and Structure, Types of EMS System

Tuesday Sept.16 - Basic Concepts of EMS Planning, Regionalization, Funding

Thursday Sept.18 - Standardization in EMS, Standards of Care, Continuity of Care, Pick-up - to Rehab

Tuesday Sept.23 - High-Risk Categories

Thursday Sept.25 - *Report #2 due*, Categorization, Echelons of Care

Tuesday Sept.30 - Medical Control, Accountability

Thursday Oct.2 - EMS Training

Tuesday Oct.7 - Access to EMS Care, 24-hr. Availability, 911

Thursday Oct.9 - *Report #3 due*, Communications, Manpower

Tuesday Oct.14 - Transportation - Land, Air, Marine

Thursday Oct.16 - EMS Field Equipment Part I

Tuesday Oct. 21 - EMS Field Equipment Part II

Thursday Oct. 23 - *Report #4 due*, Critical Care Centers, Training

Tuesday Oct.28 - Spinal Cord Centers, Burn Centers

Thursday Oct.30 - **Mid-Term Exam**

Tuesday Nov.4 - Poison Control, Cardiac Centers

Thursday Nov.6 - *Report #5 due*, High-Risk Infant, Behavioral

Tuesday Nov.11 - Consumer Participation, EMS Councils, Public Safety

Thursday Nov.13 - Standardized Record Keeping, Patient Transfer Agreements

Tuesday Nov.18 - Public Information and Public Education

Thursday Nov.20 - Mass Casualty, Triage, Mutual Aid

Tuesday Nov. 25 - Systems Review and Evaluation

Tuesday Dec.2 - Grants Preparation tieing in 15 EMS Components and High-Risk Categories

Thursday Dec. 4 - ***TERM PAPER DUE*** Special Topics in EMS

Tuesday Dec. 9 - Student Presentations

Thursday Dec. 11 - Course Evaluation and Wrap-up

Tuesday Dec. 16 - ****FINAL EXAM****

LIST OF GENERAL TOPICS RELATED TO EMERGENCY MEDICAL SERVICES

Accidents
Acute Care
Advanced Life Support
Airport EMS
Ambulance Service
Assessment of Injuries
Basic Life Support
Battered Women
Burns
Categorization of Hospitals
Centralization of Services
Cervical Injuries
Chest Trauma
Communications
Computers in EMS
Consumer education
Crisis Intervention
Critical Care
Development of EMS
Dispatching
Disaster Management
Drugs
Economics of EMS
Emergencies, Medical
Emergencies, Psychiatric
Emergency Departments
Emergency Health Services
Emergency Medical Services
Evaluation of EMS systems
Federal EMS Program
First Aid
Ground Operations, EMS
Guidelines, Federal EMS
Guidelines, State EMS
Hazardous Materials
Head Injuries
Heart Attacks
Helicopters in EMS
Highway Safety
Hospitals
Immediate Medical Care
Injuries
International EMS Systems
Joints, injuries to
Judgement on the part of EMS personnel
Kidney failure
Law, EMS related
Legal implications of EMS
Legislation
Life Support Systems
Lifting, Moving and Transfering patients
Maltreated child
Management, EMS
Medical Management
Model legislation
Neurological Injuries
Newborns
Organization, EMS
Patient Care
Pediatrics and EMS
Performance Evaluation
Physicians' emergency
Planning EMS
Poisons
Problems in EMS
Psychiatric emergencies
Pulmonary emergencies
Quick response teams
Quaalude
Reactions to injury (emotional/physical)
Regionalization
Respiratory emergencies
Rural EMS systems
Spinal Cord Injuries
Standardization
Stress
Sudden Infant Death
Telecommunications
Telemetry
Traffic safety
Training Programs
Trauma
Urban EMS Systems
Ulcers, stress
Upper airway obstruction
Venipuncture procedure
Vascular system
Ventilation, artificial
Vital signs
Water emergencies
Wounds
X-rays
Zygoma injuries

J. Mitchell
MIEMSS/UMBC EHS Program

MIEMSS ANNOUNCES...

PLANS FOR A BACHELOR'S DEGREE IN EMERGENCY HEALTH SERVICES.

The program will be a joint effort of the Maryland Institute for Emergency Medical Services Systems and the University of Maryland at Baltimore County, Catonsville, Maryland.

- Student would be admitted to UMBC and meet its requirements for a baccalaureate degree.

Graduates would be prepared to:

- Coordinate and manage local emergency health systems.
- Work collaboratively with professionals in emergency medical services systems.
- Develop the content of and teach EMT-A courses.
- Interact effectively with public and community agencies.

Target date for the emergency health services program to begin: September 1980.

If you would like to be advised of further developments, please leave your name and address at the registration desk.

*All plans and further development are subject to approval by the Maryland State Board of Higher Education.

Maryland Institute for Emergency Medical Services Systems • 22 S Greene Street, Baltimore, Md 21201

Times
Arbutus, Md.

SEP 10 1980

Shock trauma comes to UMBC

The founder of the Shock Trauma Center in Baltimore opened a course at the University of Maryland Baltimore County that school spokespeople say is the first of its type in the world.

R. Adams Cowley, who began the center at the Maryland Institute for Emergency Medical Services Systems, inaugurated a bachelor's degree program in emergency health services.

"You will be involved with living and dying," Dr. Cowley told the group of 66 students last week.

The program will include medical and science courses, and public administration and policy, UMBC representative Susan Baldwin said. It will prepare students to administer and train others for emergency services systems and agencies.

Classroom work, seminars and field work in the Shock Trauma Center will be included in the course, Ms. Baldwin added.

When the first class graduates in 1983 it will include students from many parts of the country, spokesperson Judy Taylor noted, "and we've been getting calls about the program from all over: Alaska, Hawaii, California..."

Although Dr. Cowley "is internationally renowned," Ms. Taylor added, when he was the first on the scene at a Catonsville Independence Day accident two years ago another man there asked the doctor who he was.

Even if Dr. Cowley was temporarily unknown July 4 two years ago, the university students were well aware of who was addressing them.

One pre-med student, who told the doctor he was his idol, gave the Shock Trauma Center founder a homemade hand puppet.

The emergency health services program at UMBC was sparked by the federal Emergency Medical Services Systems Act of 1973, Ms. Baldwin said, which gave federal support to communities to improve their emergency care systems.

Although the university's program will only go as far as a bachelor of science degree, Ms. Taylor said a master's or doctoral degree was envisioned.

But it was Dr. Cowley who pointed out that the program had a more important goal than leading to a college degree. "I can't think of anything," he said, "more productive than saving lives."