

KINGSBOROUGH COMMUNITY COLLEGE

The City University of New York
Department of Nursing- Paramedic Program

EMS 100 – Emergency Medical Technician- Basic

Course Syllabus: Fall 2014

Prerequisites: Passing score on the CUNY Reading and Writing Exams and the COMPASS Math Skills Test, successful completion of all developmental courses, or department permission

Credit Hours: 5
Contact Hours: 12

Corequisites: none
Tue/ Wed/ Thu 12:40PM-5:10PM (or 6PM-10PM)

Catalogue Description

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as an emergency medical technician (EMT). It reviews material including but not limited to: overview of emergency medical services (EMS); EMS systems; roles of EMTs and paramedics; basic anatomy and physiology; preparatory and basic airway management; cardiopulmonary resuscitation (CPR); patient assessment; medical/behavioral/obstetrical/gynecological, traumatic, medical emergencies for neonate, pediatric, adult and geriatric patients. Lab work includes bleeding control, CPR, patient assessment and management, splinting, patient immobilization, moving techniques, and ambulance operations. Skills are subsequently demonstrated and evaluated in the laboratory, hospital and/or field setting. Students must satisfactorily perform all practical skills in order to successfully complete the course.

Course Overview

This course will prepare students in the domains of knowledge, skills and affect in order to succeed in the field of Emergency Medical Services as an Emergency Medical Technician (EMT). This course will assist them in preparing and applying for New York State and National Registry certification and employment. The course meets 12 hours each week (8 lecture, 4 lab).

Student Learning Outcomes

Assessment Measures

1. Understand his/her role and responsibilities within an EMS system, and how these roles/responsibilities differ from other levels of providers.	Through classroom discussions, high fidelity simulation activities, assignments and examinations, the students will demonstrate mastery of the required curriculum of the New York State Department of Health Bureau of Emergency Medical Services for certification as an Emergency Medical Technician (EMT).
2. Recognize the nature and severity of a patient's condition or extent of his/her injuries.	The students will demonstrate entry level competence in recognizing signs and symptoms of different emergency medical and traumatic conditions. The competence will be determined by didactic and practical examinations in accordance with the New York State Department of Health Emergency Medical Technician (EMT) curriculum.
3. Assess the patient and determine the appropriate treatment modalities for emergency care of the patient.	The students will demonstrate entry level competence in assessing and determining the appropriate treatment modalities for emergency care. The competence will be determined by didactic and practical examinations in accordance with the New York State Department of Health Emergency Medical Technician (EMT) curriculum.
4. Administer appropriate emergency medical care in accordance to the presenting condition of the patient.	The students will demonstrate entry level competence in administering appropriate medical care according to the presenting condition of the patient. The competence will be determined by didactic and practical examinations in accordance with the New York State Department of Health Emergency Medical Technician (EMT) curriculum.
5. Apply knowledge of operational roles and responsibilities to ensure safety to the patient, bystander, provider and partner.	The students will demonstrate entry level competence in applying the knowledge of operational roles and responsibilities to ensure the safety of the patient, bystander, provider and partner. The competence will be determined by didactic and practical examinations in accordance with the New York State Department of Health Emergency Medical Technician (EMT) curriculum.
6. Recognize signs and symptoms, assess treatment modalities and administer cardiopulmonary resuscitation to a patient in cardiac arrest.	Through class room discussion, assignments and didactic and practical examinations, the students will demonstrate mastery of the required curriculum for the certification in Basic Life Support certification in accordance to the national standards of the American Heart Association.

Teaching Strategies

Lecture	Discussion Quizzes	Skills Demonstration/Return Demonstration Simulation activities	Multimedia AHA BLS examination preparation	Examinations
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Recommended Textbooks:

1. AAOS, Emergency Care and Transportation of the Sick and Injured. 10th edition. 2012. ISBN # 9781449685881.
2. American Heart Association. BLS for Health Care Provider. Student Manual. 2010. ISBN # 9781616690397.
3. Navigate Course management System Access (available from instructor and Jones & Bartlett Publishers)

Attendance

A student is deemed excessively absent when he or she has been absent 15% of the number of contact hours a class meets in a semester. When a student is excessively absent, a grade of "W" or "WU" will be assigned as described in the college catalog.

Health Clearance – CPR Training

Students are required to have health clearance. Students will have the opportunity to obtain American Heart Association CPR certification early in the course. During the semester any change in the student's health clearance (e.g., serious illness, accident, pregnancy, etc.) necessitates evaluation by student health service. Student responsibility includes notification of the instructor and course coordinator. Health clearance, which includes PPD, drug testing, Flu shot and proof of clearance from the Office of Health Services must be maintained to continue course enrollment.

General and Professional Insurance

Effective fall 2014, CUNY will be providing this insurance to all students in a clinical program. Therefore, the EMT student will not be required to purchase this insurance in order to participate at clinical rotation sites.

Classroom Decorum

All pagers, wireless phones, electronic games, radios, tape or CD players or other devices that generate sound must be turned off when any member of the academic community enters a classroom. Cellular devices are allowed to be on in the classroom only if the owner is using the caller ID, voice messages or a vibrating battery or universal clip mechanism. **NO TEXTING IS ALLOWED AT ANY TIME DURING CLASS AND/OR LABS.** Members of the academic community must exit the classroom to make or receive calls.

Grades

Course grades will be calculated according to college and departmental policy as follows:

A+	97-100	A	93-96	A-	90-92	B+	87-89	B	83-86
B-	80-82	C+	78-79	C	75-77	C-	70-74	D+	66-69
D	60-65	F	<60 and below						
W	Withdrew without penalty								
WU	Unofficial Withdrawal (Counts as failure)								
INC	Term's Work Incomplete. Counts as "F" grade unless work is completed within six months.								

Course grades will be determined as described below:

Affective and Professional Domain	5%
Participation and Squad interaction	10%
Quizzes and assignments	10%
Skills	10%
Final exam	20%
Exams	45%

The Department of Nursing adheres to the Policies and Procedures on Academic Integrity as set forth by CUNY. See the Emergency Medical Technician Student Handbook, the KCC Catalog and website for further details. Students are expected to take all tests when scheduled. Exceptions to this rule will be for emergency situations and the faculty must know in advance. Students who do not take a test on the scheduled date are required to take a makeup test. All makeup tests will be given at the end of the semester. Students who fail to take the scheduled exams or makeup will receive a grade of zero for that test.

All written assignments must comply with college standards for written work. Written assignments are to be turned in during the class period on the date that they are due. Assignments submitted via email must be received before 12:00 AM on the due date. All other submissions will not be graded. All assignments must be handed in by the end of the course to complete the

requirements of the course. A late assignment will meet the requirements of the course but will not receive full credit. If written assignments are not submitted by the end of the course, the student will receive a grade of “F” for the course.

A conference with the instructor is required at mid-semester and at the end of the course to discuss the student’s progress. Students may arrange a conference / appointments through the Paramedic Office, T280, or calling (718) 368-6720 to schedule an appointment.

Retention Criteria (from 2014-15 catalog)

Criteria for retention in the Paramedic Program mandate that students must:

1. Receive no more than two grades below “C” in any pre-requisite or co-requisite courses.
2. Earn a minimum grade of “C” in all EMS courses.
3. Earning less than a C in an EMS course may repeat the course one time (subject to space availability). The minimum grade for courses that are repeated is a B.
4. Who earn a second grade of less than “C” will result in the student’s dismissal from the program.
5. Must perform at a satisfactory level in all clinical courses in order to remain in the program

Any student who has not attended EMS courses for two or more consecutive semesters cannot be readmitted into the Paramedic Program unless qualifying examinations have been passed in sequential order of the courses previously completed. These qualifying examinations can be repeated only once. In addition, the student must demonstrate clinical competency by passing a clinical practical examination prior to returning to any of the clinical courses.

Fatigue

Fatigue can certainly impair a health care worker’s ability to provide safe, professional care. Thus KCC’s Nursing Department states, “All students need to carefully assess his/her level of fatigue, school requirements in terms of lecture, on-campus labs and clinical experiences and own work schedules. This assessment should carefully consider the potential impact of excessive employment on his/her ability to provide safe, professional care. Each student has an ethical responsibility to ensure that fatigue does not negatively impact student responsibilities.”

Topical Outline

- EMS systems, Medical terminology, Workforce Safety and Wellness, Medical, Legal & Ethical Issues in EMS
- Human body and life span development, Medical overview
- BLS resuscitation, airway management, respiratory emergencies
- Patient assessment, Cardiovascular emergencies, Endocrine and Hematologic Emergencies, Immunologic emergencies, environmental emergencies, neurological emergencies
- Principles of Pharmacology, Medication Protocols
- Shock, trauma overview, head and face injuries, neck and spine injuries, orthopedic and chest injuries
- Lifting and Moving Patients, Transportation Operations, Ambulance Ops Protocol Review
- Gynecologic Emergencies, Obstetrics and Neonatal Care, Pediatric emergencies and pediatric protocol review
- Cardiac arrest

Topical Outline Schedule

<u>Day</u>	<u>Date</u>	<u>Topics</u> <u>Quizzes and Exams</u>	<u>Assignments</u> <u>Chapters</u>
Thurs	9/4/14	Course Introduction Policies and Procedures Introduction to JB Course Manager Administrative Requirements State and College Applications and forms Tips and Techniques for Effective Study Affective Domain Rubric Group Formation Role assignments EMS Systems	Read Chapter 1 Binder Bender 1 Due

		Medical Terminology	
Tue	9/9/14	NRC: Resiliency Workshop (12:40 – 1:40PM)	
Tue	9/9/14	Workforce Safety and Wellness Signing up for Navigate in Computer Lab Medical, Legal & Ethical Issues in EMS +SC-5: Refusing Medical Aid (RMA)	Read Chapter 2 and 3 Binder Bender 2 and 3 Due
Wed	9/10/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	9/10/14	The Human Body Part 1 Exam #1: Chapters 1, 2, 3; EMS Systems, Workforce Safety, Medical/Legal	Read Chapter 5 Binder Bender 5 Due
Thurs	9/11/14	The Human Body Part 2 Life Span Development NRC: EMS Program, Math Exam	Read Chapters 5 & 6 Binder Benders 5 & 6 Due
Tue	9/16/14	Medical Overview + M-12: Adult Respiratory Arrest/Failure (Non-Traumatic)	Read Chapter 12 Binder Bender 12 Due
Wed	9/17/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	9/17/14	BLS Resuscitation +M-9: Adult Obstructed Airway + M-10: Pediatric Obstructed Airway	Read Chapter 11 & AHA CPR Book Binder Bender 11 Due
Thurs	9/18/14	Airway Management +SC-1: Oxygen Administration Exam #2: Chapters 5, 6, 1, 12; Human Body, Lifespan Development, Medical Overview, BLS	Read Chapter 9 Binder Bender 9 Due
Tue	9/23/14	Respiratory Emergencies + M-15: Respiratory Distress (Shortness of Breath, Difficulty Breathing) + SC-4: Nebulized Albuterol	Read Chapter 13 Binder Bender 13 Due
Tue	9/30/14	AHA Health Care Provider CPR	AHA CPR Book
Wed	10/1/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	10/1/14	Cardiovascular Emergencies + M-5: Adult Cardiac Related Problem + M-14: Adult and Pediatric Automated External Defibrillation (AED) + SA-97-02: Biphasic Automated External Defibrillator	Read Chapter 14 Binder Bender 14 Due
Thurs	10/2/14	AHA Health Care Provider CPR Skills CPR Exam: Written and Psychomotor Skills Exam	AHA CPR Book
Tue	10/7/14	Airway 1 Vital Signs 1 History of Present Illness 1 Medical Patient Assessment 1	
Wed	10/8/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	10/8/14	Patient Assessment +GA-1: General Approach to Pre-hospital	Read Chapter 8 Binder Bender 8 Due
Thurs	10/9/14	Airway 2	

		Vital Signs 2 AMPLE History 1 Medical Patient Assessment 2	
Wed	10/15/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	10/15/14	Endocrine and Hematologic Emergencies + SA-97-01: Emergency Care of Persons with Hemophilia Exam #3: Chapters 9, 13, 14; Airway Management, Respiratory Emergencies, Cardiovascular	Read Chapter 17 Binder Bender 17 Due
Thurs	10/16/14	Airway 3 Vital Signs 3 History of Present Illness 2 Medical Patient Assessment 3	
Tue	10/21/14	Airway 4 Vital Signs 4 AMPLE History 2 Medical Patient Assessment 4	
Wed	10/22/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	10/22/14	Neurological Emergencies + M-2: <i>Altered Mental Status (Non Traumatic and without Respiratory or Cardiovascular Complications)</i> + M-16: <i>Seizures</i> + M-17: <i>Stroke</i>	Read Chapter 15 Binder Bender 15 Due
Thurs	10/23/14	Principles of Pharmacology Medication Protocols Exam #4: Chapters 8, 15, 17; Patient Assessment, Neurologic Emergencies, Endocrine and Hematological Emergencies	Read Chapter 7 Binder Bender 7 Due
Tue	10/28/14	Medical Patient Assessment 5 Medication Administration 1 CPR & AED Skills 1	
Wed	10/29/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	10/29/14	Immunologic Emergencies + M-3: Anaphylactic Reaction with Respiratory Distress and Hypoperfusion Communications and Documentation Midterm Exam Review	Read Chapter 4 & 18 and Appendix A Binder Bender 4 & 18 Due
Thurs	10/30/14	Medication Administration 2 CPR & AED Skills 2 Medical Patient Assessment 6 Exam #5: Chapters 7, 18, other; Pharmacology, Immunology, AED, Scenarios	
Tue	11/4/14	Midterm Examination: Chapters 1, 2, 3, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 17, 18, BLS/CPR & AED Cumulative Exam all chapters and topics to date	Read Chapters 10 & 22 Binder Benders 10 & 22 Due

		Shock + SC-2: Hypoperfusion Trauma Overview	
Wed	11/5/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	11/5/14	NRC: Employment Workshop (12:40 – 1:40PM)	
Wed	11/5/14	Environmental Emergencies + M-6: Cold Emergencies + M-8: Heat Emergencies	Read Chapter 30 Binder Bender 30 Due
Thurs	11/6/14	Bleeding & Shock Management 1 Bandaging 1 PASG/MAST Demonstration	
Tue	11/11/14	Bleeding + T-1: Amputation + T-2: Bleeding (External) + T-6: Adult Major Trauma (Including Traumatic Cardiac Arrest) Soft Tissue Injuries + T-3: Burns (Chemical) + T-4: Burns (Thermal/Electrical)	Read Chapters 23 & 24 Binder Benders 23 & 24 Due
Wed	11/12/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	11/12/14	Face and Neck Injuries + T-9: Eye Injuries + T-10: Face and Throat Injuries Head and Spine Injuries + T-8: Suspected Head or Spinal Injuries (Not Meeting Major Trauma Criteria) Exam #6: Chapters 10, 22, 30, 23, 24; Shock, Trauma, Environmental, Bleeding, Soft Tissue, Scenarios	Read Chapters 25 & 26 Binder Benders 25 & 26 Due
Thurs	11/13/14	Bleeding & Shock Management 2 Bandaging 2 Trauma Patient Assessment 1	
Tue	11/18/14	Trauma Patient Assessment 2 Spinal Immobilization (Seated) 1 Spinal Immobilization (Supine) 1 Bleeding and Shock Management 3	
Wed	11/19/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	11/19/14	Orthopedic Injuries + T-5: Musculoskeletal Trauma	Read Chapter 29 Binder Bender 29 Due
Thurs	11/20/14	Trauma Patient Assessment 3 Spinal Immobilization (Seated) 2 Spinal Immobilization (Supine) 2 Traction Splint 1	
Tue	11/25/14	Chest Injuries Abdominal and Genitourinary Injuries Exam #7: Chapters 25, 26, 29; Face & Neck, Head & Spine, Orthopedic Injuries	Read Chapters 27 & 28 Binder Benders 27 & 28 Due
Wed	11/26/14	Math Workshop (Session 1; 10:30AM-12:00PM,	

		Session 2; 4:30PM-5:45PM)	
Wed	11/26/14	NRC: Academic Workshop (12:40 – 1:40PM)	
Wed	11/26/14	Lifting and Moving Patients Transportation Operations Ambulance Ops Protocol Review	Read Chapters 35 & 36 Binder Benders 35 & 36 Due
Tue	12/2/14	Lifting and Moving 1 Spinal Immobilization (Seated) 3 Spinal Immobilization (Supine) 3 Rapid Extrication 1 Standing Takedown 1	
Wed	12/3/14	Math Workshop (Session 1; 10:30AM-12:00PM, Session 2; 4:30PM-5:45PM)	
Wed	12/3/14	Gynecologic Emergencies Obstetrics and Neonatal Care + <i>SC-3: Emergency Childbirth and Resuscitation/Stabilization of the Newborn</i> Exam #8: Chapters 27, 28, 35, 36; Chest, Abdominal/Genitourinary Injuries, Lifting & Moving, Transport Operations	Read Chapters 21 & 31 Binder Benders 21 & 31 Due
Thurs	12/4/14	Pediatric Emergencies Pediatric Protocol Review + <i>M-7: Pediatric Respiratory Distress/Failure</i> + <i>M-13: Pediatric Respiratory Arrest/Failure (Non-Traumatic)</i> + <i>T-7: Pediatric Major Trauma (Including Traumatic Cardiac Arrest)</i> + <i>SA-02-02: AED for Pediatric Patients</i>	Read Chapter 32 Binder Bender 32 Due
TBD	TBD	Semester Final Exam: Cumulative, ALL Topics covered to date	