

KINGSBOROUGH COMMUNITY COLLEGE

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

EMS 210 – Paramedic I

Prerequisites: BIO 12, ENG 24, PSY 11, any 3-credit math course

Credit Hours: 7

Class schedule: Mon, Tue, Wed, Thur: 6PM-10PM

Course Syllabus: Fall 2014

Co-requisites: EMS 211

Contact Hours: 16

Catalogue Description

This course covers the New York State Department of Health Bureau of Emergency Medical Services curriculum for preparation as a paramedic. It will review material including but not limited to: overview of emergency medical services (EMS); EMS systems; the role of the paramedic; introduction to National Standards Curriculum; preparatory, advanced anatomy and physiology and advanced airway management; and patient assessment and management. Lab work includes: patient assessment and management; bleeding control; fracture management; intravenous (IV) access techniques; endotracheal intubation; calculating dosages; preparing medications for administration; and practice in all administration techniques. 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 introduce students to the domains of knowledge, skills and affect in order to succeed in the field of Emergency Medical Services as a Paramedic. This course will assist them in preparing and applying for New York State, New York City and National Registry certification and employment. The course meets 16 hours each week (12 hours lecture, 4 hours 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 a Paramedic.
2. Integrates comprehensive knowledge of EMS systems, safety/well being of the paramedic, and medical/legal and ethical issues, which is intended to improve the health of EMS personnel, patients, and the community.	Students will be able to define and recall specific medical/legal/ethical issues in addition to EMS systems and safety issues regarding scope of practice as a Paramedic. Students will be able to identify and key patient safety issues through successfully answering examination questions.
3. Integrates a complex depth and comprehensive breadth of knowledge of the anatomy and physiology of select human systems.	Students will be able to define and recall specific landmarks and key organs and function of the components of select human systems. Students will be able to identify and key anatomy and physiology of select human systems through successfully answering examination questions.
4. Integrates comprehensive anatomical and medical terminology and abbreviations into the written and oral communication with colleagues and other health care professionals	Students will be able to relate and influence the use of anatomical and medical terminology into written and oral communication with other healthcare professionals. Students will be able to demonstrate their proficiency through successfully answering examination questions and simulation exercises with other programs such as nursing throughout the semester.
5. Integrates comprehensive knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.	Students will be able to define and recall specific pharmacology topics in addition to understanding and implementing the correct medications. Students will be able to demonstrate their competencies through successfully answering examination questions and practical simulation exercises.
6. Applies fundamental knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention.	Students will be able to define and recall specific key approaches and issues regarding public health emergencies, health promotion and injury prevention within the scope of practice as a Paramedic. Students will be able to identify and key public health emergency and injury prevention issues through successfully answering examination questions.
7. Integrates complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a	Students will be able to apply their knowledge in order to develop an appropriate treatment plan within their scope of practice as a Paramedic. Students will be able to apply and demonstrate appropriate treatment plans through successfully answering examination questions and simulation activities.

<p>patent airway, adequate mechanical ventilation, and respiration for patients of all ages.</p>	
<p>8. Integrates scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression and treatment/disposition plan for a patient with a medical complaint, an acutely injured patient or a patient with special needs and patients of all ages. This includes developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.</p>	<p>Students will be able to apply their knowledge in order to develop an appropriate field impressions and treatment/disposition plans for all types of patients of all ages within their scope of practice as a Paramedic. Students will be able to apply and demonstrate appropriate treatment/disposition plans and field impressions and treatment/disposition plans through successfully answering examination questions and simulation activities.</p>

Teaching Strategies

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

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. American Heart Association. Advanced Cardiac Life Support. Student Manual. 2010. ISBN #
4. 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 and evidence of CPR training prior to registration. 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 Paramedic 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	<60and 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:

Binder binder	5%
Affective and Professional Domain	10%
Quizzes and assignments	10%
Skills	10%
Midterm exam	15%
Final exam	20%
Exams	30%

The Department of Nursing adheres to the Policies and Procedures on Academic Integrity as set forth by CUNY. See the Paramedic 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

- Anatomy and physiology of various systems: skeletal, musculoskeletal, respiratory, circulatory, lymphatic, nervous, integumentary, digestive, endocrine, urinary
- Pathophysiology of various areas: acid-base balance, cellular injury, hypoperfusion, immunity
- Principles of pharmacology, medication administration, emergency medications
- Patient assessment, airway management and ventilation, respiratory emergencies
- EMS systems, workforce safety and wellness
- Public health, EMS communication and EMS documentation
- EMT medical patient assessment, EMT trauma patient assessment
- Hospital operations, clinical lab assessment skills

- 3 lead EKG placement, pulse oximetry, blood glucometry, medical math
- IO access, IV access, drug dosage calculation
- IV drip, SQ/IM, IV bolus medication administration
- Endotracheal intubation, alternative advanced airway, chest decompression
- CPAP

Topical Outline Schedule

Date	Topic	Assignments/Readings/Comments
	ICS 100, ICS 200, ICS 700, IS 5 Haz Mat Awareness, AWR 160 WMD, MOLST and Mandated Reporter Online Trainings are all required to be completed and submitted prior to 9/8/14	Textbook: AAOS, Nancy Caroline's Emergency Care in the Streets 7 th Edition (referred to as AAOS hereafter)
Thursday 9/4/14	Class Topic: Orientation <ul style="list-style-type: none"> • Welcome and Introductions • Program Mission and Components • Review of Student Manuals • Overview of Class and Resources Available 	First day
Friday 9/5/14 PM	Class Topic: A & P 1 <ul style="list-style-type: none"> • Topographic Anatomy Class Topic: A & P 2-Atoms, Molecules, and Chemical Bonds <ul style="list-style-type: none"> • Atomic structure • Molecules • Chemical bonds • Types of chemical reactions • Enzymes • Acids, bases, and the pH scale • Inorganic and organic substances 	AAOS: Chapter 7 182-189 and 189-194
Monday 9/8/14	Class Topic: A & P 3 <ul style="list-style-type: none"> • Cell Physiology • Cellular Transport Mechanisms (cell membrane permeability, diffusion, osmosis, facilitated diffusion, active transport) • Cell Life Cycle • Types of Tissue • Types of Membranes • Organ Systems 	AAOS: Chapter 7 194-208
Tuesday 9/9/14	Class Topic: A&P 4 <ul style="list-style-type: none"> • Skeletal System Anatomy • Skeletal System Physiology • Musculoskeletal System Anatomy • Musculoskeletal System Physiology 	AAOS: Chapter 7 208-232
Wednesday 9/10/14	Psychomotor Skill Class <ul style="list-style-type: none"> • EMT Medical Patient Assessment (1) • EMT Trauma Patient Assessment (1) • Clinical Lab Assessment Skills • Hospital Operations 	Baseline EMT assessment capability

<p>Thursday 9/11/14</p>	<p>Class Topic: A&P 5</p> <ul style="list-style-type: none"> • Respiratory System Anatomy • Respiratory System Physiology • Circulatory System Anatomy • Circulatory System Physiology 	<p>September 11th Moment of silence AAOS: Chapter 7 232-255</p> <p>Quiz 1FA; Chapter 7 Anatomy & Physiology pp 182-232</p>
<p>Friday 9/12/14</p>	<p>Class Topic: A&P 6</p> <ul style="list-style-type: none"> • Lymphatic System • Nervous System (CNS, PNS, Physiology of sensation) <p>Class Topic: A&P 7</p> <ul style="list-style-type: none"> • Integumentary System • Digestive System Anatomy • Digestive System Physiology 	<p>AAOS: Chapter 7 255-281 Dubins Chapter 1; Basic Principals</p>
<p>Monday 9/15/14</p>	<p>Class Topic: A & P 8</p> <ul style="list-style-type: none"> • Endocrine System • Urinary System • Body Fluid Balance • Genital System • Nutrition, Metabolism, and Body Temperature 	<p>AAOS: Chapter 7 281-313</p> <p>Quiz 2FA; Chapter 7 Anatomy & Physiology pp 232-281</p>
<p>Tuesday 9/16/14</p>	<p>Class Topic: Pathophysiology 1</p> <ul style="list-style-type: none"> • Review of the Basic Cellular Systems • Adaptations in Cells and Tissues • The Cellular Environment – distribution of body fluids, fluid and water balance, fluid and electrolyte balance 	<p>AAOS: Chapter 8 334-346</p>
<p>Wednesday 9/17/14</p>	<p>Psychomotor Skill Class</p> <ul style="list-style-type: none"> • EMT Medical Patient Assessment (2) • EMT Trauma Patient Assessment (2) • Clinical Lab Assessment Skills • Hospital Operations 	<p>Baseline EMT assessment capability</p>
<p>Thursday 9/18/14</p>	<p>Class Topic: Pathophysiology 2</p> <ul style="list-style-type: none"> • Acid-Base Balance – disturbance of acid-base balance, buffer systems, types of acid-base disorders • Cellular Injury-hypoxic injury, chemical injury, infectious injury, immunologic and inflammatory injury, genetic factors, nutritional imbalances, injurious physical agents/conditions, apoptosis, abnormal cell death 	<p>AAOS: Chapter 8 347-357</p>
<p>Friday 9/19/14</p>	<p>Class Topic: Pathophysiology 3</p> <ul style="list-style-type: none"> • Factors that Cause Disease – risk factors, analysis of risk, familial diseases and associated risk factors • Hypoperfusion • Types of Shock – central/peripheral, management of shock 	<p>AAOS: Chapter 8 357-392</p>

	<ul style="list-style-type: none"> Multiple Organ Dysfunction Syndrome (MODS) <p>Class Topic: Pathophysiology 4</p> <ul style="list-style-type: none"> The Body's Self-Defense Mechanisms – anatomic barriers, immune response, inflammatory response, chronic inflammatory response Variances in Immunity and Inflammation – hypersensitivity, immune deficiencies Stress and Disease – general adaptation syndrome, effects of chronic stress 	
Monday 9/22/14	<p>Class Topic: Principles of Pharmacology 1</p> <ul style="list-style-type: none"> Historical Perspective on Medication Administration Medication and Drug Regulation – sources and forms of medication Medication Management for Paramedics – medication names, medication reference sources, medication storage, medication security The Physiology of Pharmacology – principles of pharmacodynamics, types of medication responses, principles of pharmacokinetics, routes of medication administration 	<p>AAOS: Chapter 10 423-440</p> <p>Exam 1FA; Chapter 7 Anatomy & Physiology, Chapter 8 Pathophysiology, NYC REMAC BLS Related GOP's/BLS Protocols</p>
Tuesday 9/23/14	<p>Class Topic: Principles of Pharmacology 2</p> <ul style="list-style-type: none"> The Physiology of Pharmacology-cont.- distribution of medication, volume of distribution, medication metabolism, medication elimination Reducing Medication Errors Important Medications in the Prehospital Setting – medications used in airway management, medications used in respiratory management 	<p>AAOS: Chapter 10 440-450</p>
Wednesday 9/24/14	Day Off- No Classes	
Thursday 9/25/14	Day Off- No Classes	
Friday 9/26/14	Day Off- No Classes	
Monday 9/29/14	<p>Class Topic: Medication Administration 1</p> <ul style="list-style-type: none"> Medical Direction – paramedic's responsibility associated with drug orders Local Drug Distribution System Medical Asepsis – clean/sterile techniques, antiseptics, disinfectants Standard Precautions and Contaminated Equipment Disposal Basic Cell Physiology – body fluid 	<p>AAOS: Chapter 11 469-490</p> <p>Quiz 3FA; Chapter 10 Pharmacology pp 423-450</p>

	<p>composition, fluid and electrolyte movement</p> <ul style="list-style-type: none"> • IV Fluid Composition – types of IV solutions • IV Techniques and Administration – assembling equipment, choosing a solution, administration sets, IV site, IV catheters, securing the line, changing the IV bag, alternative IV sites and techniques 	
Tuesday 9/30/14	<p>Class Topic: Medication Administration 2</p> <ul style="list-style-type: none"> • Age-related IV therapy considerations • Factors Affecting IV Flow Rates • Potential Complications of IV Therapy – Local IV site reactions and local complications, systemic complications • Obtaining Blood Samples • Blood Transfusions • Intraosseous Infusion – equipment, steps, complications, contraindications • Medication Administration – Mathematical principles used in pharmacology, calculating medication doses 	AAOS: Chapter 11 490-502
Wednesday 10/1/14	<p>Psychomotor Skill Class</p> <ul style="list-style-type: none"> • EMT Medical Patient Assessment (1-D) • EMT Trauma Patient Assessment (1-D) • Clinical Lab Assessment Skills 	Baseline EMT assessment capability
Thursday 10/2/14	<p>Class Topic: Medication Administration 3</p> <ul style="list-style-type: none"> • Medication Administration cont. – calculating medication doses cont., weight-based drug doses • Calculating Fluid Infusion Rates • Calculating the Dose and Rate for a Medication Infusion – non-weight based and weight-based infusions • Pediatric Drug Doses • Enteral Medication Administration – oral, orogastric, nasogastric, rectal • Parenteral Medication Administration – syringes and needles, packaging of parenteral medications, intradermal medication administration. 	AAOS: Chapter 11 502-515
Friday 10/3/14	Day Off- No Classes	
Monday 10/6/14	<p>Class Topic: Medication Administration 4</p> <ul style="list-style-type: none"> • Parenteral Medication Administration cont. – subcutaneous medication administration, intramuscular medication administration, IV bolus medication, IO medication, percutaneous medication administration 	AAOS: Chapter 11 515-539 Quiz 4FA; Chapter 11 Medication Administration pp 469-515

	<ul style="list-style-type: none"> • Medications administered by the inhalation route – nebulizer, metered dose inhaler, endotracheal medication administration • Rates of Medication Absorption 	
Tuesday 10/7/14	<p>Class Topic: Principles of Pharmacology 3</p> <ul style="list-style-type: none"> • Important Medications in the Prehospital Setting cont. – medications affecting the cardiovascular system, additional cardiovascular medications, blood products and medications affecting the blood, medications used for neurologic conditions, medications affecting the gastrointestinal system, miscellaneous medications used in the prehospital setting 	AAOS: Chapter 10 450-464
Wednesday 10/8/14	<p>Psychomotor Skill Class (A+B)</p> <ul style="list-style-type: none"> • 3 Lead EKG Placement • Pulse oximetry • Blood Glucometry • Medical Math (formulas) 	Skill demonstrated and practiced in session 21
Thursday 10/9/14	<p>Class Topic: Principles of Pharmacology 4</p> <ul style="list-style-type: none"> • Review of Principles • Review of Medications in chapter • Review of 6 rights as applied to knowledge thus far • Medical Math Review 	AAOS: Chapter 10 Review Chapter
Friday 10/10/14	<p>Psychomotor Skill Class (AM)</p> <ul style="list-style-type: none"> • 3 Lead EKG Placement (1-D) • Pulse oximetry (1-D) • Blood Glucometry (1-D) <p>Psychomotor Skill Class (PM)</p> <ul style="list-style-type: none"> • IV Access (1-A) • IO Access (1-A) • Drug dosage calculations (1-A) 	<p>AM Session: Skills competency tested.</p> <p>PM Session: Introduction of new subjects</p>
Monday 10/13/14	Day Off- College Closed	
Tuesday 10/14/14 "Friday Schedule"	<p>Class Topic: Emergency Medications 1</p> <ul style="list-style-type: none"> • Medication References – AHA classification of recommendations and level of evidence, pregnancy category ratings for drugs, federal "Controlled Substance Act of 1970" schedule summary • Medical Terminology Related to Pharmacology – drug dosage calculations <p>Class Topic: Emergency Medications 2</p> <ul style="list-style-type: none"> • IV Solutions – plasma protein fraction, dextran, hetastarch, lactated ringer's (Hartmann's solution), 5% dextrose in water, 10% dextrose in water, 0.9% sodium chloride, 0.45% sodium chloride, 5% dextrose in 0.45% sodium chloride, 	<p>FRIDAY SCHEDULE 0910-1710</p> <p>AAOS: Chapter 12 545-548 576-579</p> <p>Exam 2FA; Chapter 10 Pharmacology, Chapter 11 Medication Administration</p>

	5% dextrose in 0.9% sodium chloride, 5% dextrose in lactated ringer's.	
Wednesday 10/15/14	Psychomotor Skill Class <ul style="list-style-type: none"> • IV Access (2-B) • IO Access (2-B) • Drug dosage calculations (2-B) 	A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing
Thursday 10/16/14	Class Topic: Patient Assessment 1 <ul style="list-style-type: none"> • Introduction – sick vs. not sick, establishing the field impression, medical vs. trauma • Scene Size-up – MOI/NOI, standard precautions • Primary Assessment – general impression, assess the airway, breathing, circulation, disability, performing a rapid exam, transport decision • History Taking – purpose, pt information, techniques, responsive/unresponsive patients, minor injuries, review of body systems, clinical reasoning, communication techniques, sensitive topics, cultural competence, special challenges, age-related considerations 	AAOS: Chapter 13 586-625
Friday 10/17/14	Psychomotor Skill Class <ul style="list-style-type: none"> • IV Access (3-B) • IO Access (3-B) • Drug dosage calculations (3-B) 	
Monday 10/20/14	Class Topic: Patient Assessment 2 <ul style="list-style-type: none"> • Secondary Assessment – assessment techniques • Vital Signs+ – blood pressure, pulse, respirations, CTC, pupils, pulse oximetry, glucometer, 3 lead ECG • Equipment Used • Physical Exam • Full-Body Exam • Focused Assessment • Secondary Assessment of – unresponsive patient, trauma patient, infants, children • Recording Findings • Limits of the assessment • Monitoring Devices • Reassessment • Transport Priorities • Call Review 	AAOS: Chapter 13 626-688 Midterm Exam; Chapter 7, 8, 10, 11, 12
Tuesday 10/21/14	Class Topic: Patient Assessment 3 <ul style="list-style-type: none"> • Applying Critical Thinking to Patient Assessment Class Topic: Thinking and Clinical Decision Making <ul style="list-style-type: none"> • Cornerstones of Effective Paramedic Practice • The Range of Patient Conditions • Critical Thinking and Clinical Decision Making 	AAOS: Chapter 14 694-706 AAOS: Chapter 13 Review

	<ul style="list-style-type: none"> • From Theory to Practical Application • Taking It To The Streets – read the scene, read the patient, react, reevaluate, revise the plan, review your performance 	
Wednesday 10/22/14	Psychomotor Skill Class <ul style="list-style-type: none"> • IV Access (4-D) • IO Access (4-D) • Drug dosage calculations (4-B) 	Psychomotor SKILLS
Thursday 10/23/14	Class Topic: Airway Management and Ventilation 1 <ul style="list-style-type: none"> • Airway Management and Ventilation • Anatomy of the Respiratory System • Physiology of Breathing • Ventilation • Pathophysiology of Breathing • Patient Assessment: Airway Evaluation – hypoxia, ventilation-perfusion ratio and mismatch, factors affecting ventilation, oxygenation, respiration, acid-base balance • Patient Assessment: Airway Evaluation – recognizing adequate and inadequate breathing, assessment of breath sounds, quantifying ventilation and oxygenation 	AAOS: Chapter 15 710-736
Friday 10/24/14	Psychomotor Skill Class <ul style="list-style-type: none"> • IV Access (5-D) • IO Access (5-D) • Drug dosage calculations (5-B) 	A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing
Monday 10/27/14	Class Topic: Airway Management and Ventilation 2 <ul style="list-style-type: none"> • Airway Management – positioning the patient, manual airway maneuvers • Suctioning • Airway Adjuncts (basic) • Airway Obstructions • Supplemental Oxygen Therapy – oxygen sources, safety reminders, regulators, flow-meters, preparing an oxygen cylinder for use • Supplemental Oxygen Delivery Devices –non-rebreathing, cannula, partial rebreathing, venture, tracheostomy mask, oxygen humidifier 	AAOS: Chapter 15 736-756 Quiz 5FA; Chapter Chapters 13, Patient Assessment, Chapter 14 Critical Thinking, Chapter 15 Airway & Ventilation pp 710-736
Tuesday 10/28/14	Class Topic: Airway Management and Ventilation 3 <ul style="list-style-type: none"> • Ventilatory Support – normal vs. positive pressure ventilation, assisted, artificial, ventilation, BVM, manually triggered ventilation devices, automatic transport ventilators • Continuous Positive Airway Pressure – Indications for CPAP, contraindications, application, complications • Gastric Distention 	AAOS: Chapter 15 756-789

	<ul style="list-style-type: none"> • Special Patient Considerations – Laryngectomy, tracheostomy stoma, tracheostomy tubes, dental appliances, facial trauma • Advanced Airway Management – predicting the difficult airway, endotracheal intubation, orotracheal intubation by direct laryngoscopy, nasotracheal intubation 	
Wednesday 10/29/14	Psychomotor Skill Class <ul style="list-style-type: none"> • Vascular Access (6-D) • Drug dosage calculations (6-B) • IV drip medication administration (1-A) • SQ/IM medication administration (1-A) • IV Bolus medication administration (1-A) 	A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing
Thursday 10/30/14	Class Topic: Airway Management and Ventilation 4 <ul style="list-style-type: none"> • Digital intubation, transillumination techniques for intubation, retrograde intubation, face-to-face intubation, failed intubation • Tracheobronchial suctioning • Field extubation • Pediatric endotracheal intubation • Pharmacologic Adjuncts to Airway Management and Ventilation – sedation in emergency ventilation, pharmacology of neuromuscular blocking agents, rapid sequence intubation (RSI) 	AAOS: Chapter 15 790-812
Friday 10/31/14	Psychomotor Skill Class <ul style="list-style-type: none"> • Drug dosage calculations (7-B) • IV drip medication administration (2-B) • SQ/IM medication administration (2-B) • IV Bolus medication administration (2-B) 	Halloween A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing
Monday 11/3/14	Class Topic: Airway Management and Ventilation 5 <ul style="list-style-type: none"> • Alternative Advanced Airway Devices – multilumen airways, supraglottic airway devices, • Surgical and Nonsurgical Cricothyrotomy – open cricothyrotomy, needle cricothyrotomy 	AAOS: Chapter 814-838
Tuesday 11/4/14	Class Topic: Specialty Clinical Preparatory 1	Quiz 6FA; Chapter 15 Airway & Ventilation
Wednesday 11/5/14	Psychomotor Skill Class <ul style="list-style-type: none"> • Drug dosage calculations (8-B) • IV drip medication administration (3-B) • SQ/IM medication administration (3-B) • IV Bolus medication administration (3-B) 	SKILLS
Thursday 11/6/14	Class Topic: Specialty Clinical Preparatory 2	
Friday 11/7/14	Psychomotor Skill Class <ul style="list-style-type: none"> • IV drip medication administration (4-D) • SQ/IM medication administration (4-D) 	A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning

	<ul style="list-style-type: none"> • IV Bolus medication administration (4-D) 	D = Competency Testing
Monday 11/10/14	<p>Class Topic: Respiratory Emergencies 1</p> <ul style="list-style-type: none"> • Epidemiology • Hypoventilation • Hyperventilation • Anatomy and Physiology review • Assessment of a Patient With Dyspnea • Emergency Medical Care – ensure an adequate airway, decrease the work of breathing, provide supplemental oxygen, vasodilator administration 	AAOS: Chapter 16 850-883
Tuesday 11/11/14	<p>Class Topic: Respiratory Emergencies 2</p> <ul style="list-style-type: none"> • Emergency Medical Care cont. - restoring fluid balance, diuretic administration, assisted ventilations, intubating the patient, subcutaneous medications to assist breathing, endotracheal tube medications • Pathophysiology, Assessment, and Management of Obstructive Upper Airway Disease – anatomic obstruction, inflammation caused by infection, aspiration • Pathophysiology, Assessment, and Management of Obstructive Lower Airway Disease – asthma, chronic bronchitis, COPD 	Veterans Day AAOS: Chapter 16 883-892
Wednesday 11/12/14	<p>Psychomotor Skill Class</p> <ul style="list-style-type: none"> • IV drip medication administration (5-D) • SQ/IM medication administration (5-D) • IV Bolus medication administration (5-D) 	A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing
Thursday 11/13/14	<p>Class Topic: Respiratory Emergencies 3</p> <ul style="list-style-type: none"> • Pathophysiology, Assessment, and Management of Common Respiratory Problems – pulmonary infections, atelectasis, cancer, toxic inhalations, pulmonary edema, acute respiratory distress syndrome • Pathophysiology, Assessment, and Management of Problems Outside the Lung Parenchyma – pneumothorax, pleural effusion, pulmonary embolism • Age-Related Variations – anatomy, pathophysiology 	AAOS: Chapter 16 892-901
Friday 11/14/14	<p>Psychomotor Skill Class</p> <ul style="list-style-type: none"> • Medication administration (6-D) • Endotracheal Intubation (1-A) • Alternative Advanced Airways (1-A) • Chest Decompression (1-A) • CPAP (1-A) 	A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing
Monday 11/17/14	<p>Class Topic: Patient Assessment 4</p> <ul style="list-style-type: none"> • History of Present Illness applied to chief 	AAOS: Chapter 16 888-898 (review) AAOS: Chapter 13 607, 649-652 (review)

	complaint of respiratory distress (ie: asthma and COPD)	Exam 3FA; Chapter 13 Patient Assessment, Chapter 15 Airway & Ventilation, Chapter 16 Respiratory Emergencies, NYC REMAC ALS GOP's and ALS Respiratory Protocols
Tuesday 11/18/14	Class Topic: Emergency Medications 3 <ul style="list-style-type: none"> Medications of Airway Management and Ventilation – albuterol, dexamethasone sodium phosphate, diazepam, diphenhydramine, epinephrine, epinephrine racemic, etomidate, ipratropium, isoetherine, levalbuterol, lorazepam, metaproterenol sulfate, methylprednisolone sodium succinate, midazolam, oxygen, pancuronium bromide, propofol, rocuronium bromide, succinylcholine chloride, terbutaline sulfate, vecuronium bromide. 	AAOS: Chapter 12 548, 553, 554, 555, 557, 558, 561, 562, 563, 565, 566, 570, 572, 573, 574, 575
Wednesday 11/19/14	Psychomotor Skill Class <ul style="list-style-type: none"> Phlebotomy (Live blood draw) 	Psychomotor SKILLS
Thursday 11/20/14	Class Topic: Patient Assessment 5 <ul style="list-style-type: none"> Age-related assessment and challenges Class Topic: Life Span Development <ul style="list-style-type: none"> Introduction Physical and Psychosocial Changes of: infants, toddlers, preschoolers, school-age, adolescents, early adults, late adults 	AAOS: Chapter 9 400-416 AAOS: Chapter 13 Review
Friday 11/21/14	Psychomotor Skill Class <ul style="list-style-type: none"> Endotracheal Intubation (2-B) Alternative Advanced Airways (2-B) Chest Decompression (2-B) CPAP (2-B) 	A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing
Monday 11/24/14	Class Topic: EMS Systems <ul style="list-style-type: none"> EMS System Development Licensure, Certification, Registration EMS System Levels of Education Paramedic Education Additional Types of Transports Working With Other Professionals National EMS Group Involvement Professionalism Roles and Responsibilities Medical Direction Improving System Quality EMS Research 	AAOS: Chapter 1 4-28 Quiz 7FA; HPI-respiratory/Emergency Meds of Airway Management, Chapter 9 Life Span Development
Tuesday 11/25/14	Class Topic: Workforce Safety and Wellness <ul style="list-style-type: none"> Components of Well-Being Stress 	AAOS: Chapter 2 32-58 AAOS: Chapter 3 60-83

	<ul style="list-style-type: none"> • Coping With Death and Dying • Disease Transmission • Protecting Yourself <p>Class Topic: Public Health</p> <ul style="list-style-type: none"> • Role of Public Health • Public Health Laws, Regulations, and Guidelines • EMS Interface With Public Health • Injury and Illness Prevention and EMS • Principles of Injury and Illness Prevention • Getting Started In Your Community • How Every Provider Can Be Involved 	
Wednesday 11/26/14	Online Assignments Due	Homework Assignments Due Pre-Thanksgiving
Thursday 11/27/14	Thanksgiving; Day Off- No Classes	
Friday 11/28/14	Day Off- No Classes	
Monday 12/1/14	Make Up Day	TBD
Tuesday 12/2/14	<p>Class Topic: Medical, Legal, and Ethical Issues</p> <ul style="list-style-type: none"> • Medical Ethics • The Legal System in the United States • Legal Accountability of the Paramedic • Paramedic-Patient Relationships • Negligence and Protection Against Claims • Patient Autonomy • Defenses to Litigation • Employment Law and the Paramedic 	<p>AAOS: Chapter 4 85-114</p> <p>Quiz 8FA; Chapter 1 EMS Systems, Chapter 2 Workforce Safety & Wellness, Chapter 3 Public Health</p>
Wednesday 12/3/14	<p>Psychomotor Skill Class</p> <ul style="list-style-type: none"> • Endotracheal Intubation (3-B) • Alternative Advanced Airways (3-B) • Chest Decompression (3-B) • CPAP (3-B) 	<p>A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing</p>
Thursday 12/4/14	<p>Class Topic: EMS Communications</p> <ul style="list-style-type: none"> • EMS Communications System – components, radio communication, cellular, backup communications, biotelemetry, factors affecting communication • Communication by Radio - FCC regulations, clarity and content of transmissions, codes, response to the scene, relaying information to medical control, reporting medical information • Communication With Health Care Professionals • Dispatching • Therapeutic Communication <p>Class Topic: Documentation</p> <ul style="list-style-type: none"> • Legal Issues of a PCR – confidentiality, HIPAA 	<p>AAOS: Chapter 5 120-143 AAOS: Chapter 6 148-177</p>

	<ul style="list-style-type: none"> • Purposes of Documentation • Types of Patient Care Reports • Documenting Every Call • Pertinent Negatives • Situations Requiring Additional Documentation • Completing the PCR • Errors and Falsification • Documenting Incident Times <p>Medical Terminology</p>	
Friday 12/5/14	<p>Psychomotor Skill Class</p> <ul style="list-style-type: none"> • Endotracheal Intubation (4-D) • Alternative Advanced Airways (4-D) • Chest Decompression (4-D) • CPAP (4-D) • Student Psychomotor Skill Status Review* 	<p>Holiday Party A = Whole-Part-Whole B = Transitional Learning C = Problem Based Learning D = Competency Testing *Each student advised of progress by Psychomotor Skills Coordinator</p>
Monday 12/8/14	Day Off- No Classes Reading Day	
12/9/14- 12/15/14	Finals (Exact Day TBD)	FA14 FINAL EXAM; Chapters 1, 2, 3, 7, 8, 10, 11, 12, 13, 14, 15, 16