

WILLIAM RAINEY HARPER COLLEGE
HEALTH CAREERS DIVISION
NORTHWEST COMMUNITY HEALTHCARE PARAMEDIC PROGRAM
COURSE SYLLABUS

EMS Course Prefix	210 Course Number	PARAMEDIC PREPARATORY Course Title	(9-3) (Lec-Lab)	10 Semester Hours
		Connie J. Mattera, M.S., R.N., PM Program Director Michael Gentile, BA, PM; Lead Instructor Northwest Community Hospital (NCH) 800 W. Central Rd; EMS Offices in Behavioral Health/901 Kirchoff Center Arlington Heights, IL 60005 Office hours: M-F 0800-1700 Phone: 847.618.4482 (Secretary) - #4490 (Mr. Gentile) cmattera@nch.org or mgentile@nch.org		

Dates of class: September 14, 2020 – December 18, 2020 (see Academic calendar)
 Location: NCH; Learning Center rooms 3&4 or Virtual (Zoom)

COURSE DESCRIPTION: Designed to expand upon entry level knowledge and skills acquired in an EMT, AEMT, or EMT-I course. EMS 210 provides the foundations of paramedic (PM) practice upon which all other instruction is based and must be passed to continue in the program. Content and objectives are mapped to the national EMS Education Standards and National EMS Scope of Practice Model.

PREREQUISITES: (1) Unencumbered Emergency Medical Technician (EMT), Advanced EMT (AEMT), or EMT-Intermediate (EMT-I) license with practice privileges in Illinois and admission into the EMS degree or the Paramedic Certificate programs; (2) valid and current American Heart Association CPR for Healthcare Providers card; and (3) field internship acceptance by a NWC EMS Agency.

Co-requisite: EMS 217: Hospital clinical rotations

TOPICAL OUTLINE: The complete Academic Calendar is provided prior to the first day of class.

- Emergency Medical Services (EMS) Systems; genesis, structure, function, licensure, research
- Paramedic roles and responsibilities/workforce safety and wellness
- Overview of human anatomy and physiology; pathophysiology; lifespan development, defense against disease
- Communication systems; therapeutic communication
- Legal, ethical, public health, and regulatory issues
- General principles of documentation; introduction to Image Trend ePCR and FISDAP software
- Principles of pharmacology; drug profiles, routes of administration; vascular access techniques
- Fluids & electrolytes; acid base imbalances
- Respiratory A&P, airway access, ventilation strategies, SpO₂ and ETCO₂ monitoring, and O₂ delivery devices
- Patient assessment

METHODS OF PRESENTATION

- Interactive lecture; student and instructor-led discussions
- Student-centered learning activities: Case studies; simulations, scenarios, role playing
- Guided practice: Demonstrations; return demonstrations in precepted lab environment
- Independent practice: Reading text, completing homework questions and MyLab Brady assignments

STUDENT OUTCOMES: (*The student will...*)

1. integrate comprehensive knowledge of EMS systems, the safety/well-being of the PM, medical/legal and ethical issues which is intended to improve the health of EMS personnel, patients, and the community.
2. demonstrate complex depth and comprehensive breadth of knowledge relative to the principles of medical documentation and report writing; EMS communication systems, communication with other health care professionals, and team dynamics.
3. integrate a complex depth and comprehensive breadth of knowledge relative to the anatomy, physiology, and pathophysiology of all human systems, across the life-span, and applied to all patient assessments.
4. integrate comprehensive anatomical and medical terminology and approved abbreviations into written and oral communication with colleagues and other health care professionals.
5. apply fundamental knowledge of the principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention to daily practice.
6. integrate comprehensive knowledge of pharmacology, EMS drug profiles, and medication administration by all routes within a PM's scope of practice to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.

7. integrate complex knowledge of anatomy, physiology, and pathophysiology into each assessment to develop and implement a treatment plan with the goal of assuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.
8. Integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. This includes developing a list of differential diagnoses through clinical reasoning to formulate a treatment plan.
9. demonstrate fundamental depth and foundational breadth of understanding and psychomotor mastery at the precision level within a PM's scope of practice in obtaining and using information from monitoring devices, e.g., pulse oximetry, quantitative waveform capnography, and noninvasive BP monitoring, and performing psychomotor skills relative to airway, oxygenation, medication administration contained in the national scope of practice model, those adopted by IDPH, and as specified in the Lab Manual.
10. characterize the professional behaviors stated in the program affective objectives.

METHODS OF EVALUATION

- Formative and summative evaluations of student performance in all domains of learning
 - Cognitive objectives: quizzes; modular written examination
 - Psychomotor objectives: Precepted labs; practical exams
 - Affective objectives: Observation against criterion based rubric
- Student evaluation of program and faculty

COURSE GRADING POLICIES: Specified in the NCH Paramedic Program Student Handbook.

ASSIGNMENTS

- Daily: assigned text, handout readings are listed in the Academic Calendar and on each topic handout
- Homework questions for each topic. Instructor will inspect completed questions every morning and note any incomplete work.
- Additional text, quiz questions and case studies will be assigned and tracked for 100% completeness in MyLab™ BRADY.
- Individual or group projects/assignments/presentations are defined in the class Academic Calendar.

ATTENDANCE POLICY

Because of the critical nature of the content and full time schedule of the course, students are expected to attend every class, lab and exam on the days and times they are offered. If a student needs to miss class due to an excused illness, they may attend virtually via Zoom. If too ill to participate in class, an individualized makeup plan will be implemented that the student must complete by the specified date. If a student completely misses three or more full days of class, is tardy three or more times, or fails to complete makeup assignments as outlined, they will be subject to a corrective action plan which may include separation from the program. Specific class attendance requirements are specified in the NCH Paramedic Program Student Handbook.

MAKE UP EXAMS/ASSIGNMENTS: Specific information relative to missed or late exams, quizzes or assignments is contained in the NCH Paramedic Program Student Handbook.

STUDENT BEHAVIOR: Information relative to civil, courteous and professional behaviors including, but not limited to, integrity, honesty, empathy, self-motivation, appearance and personal hygiene, self-confidence, communication, time management, teamwork, diplomacy, attitude, respect, patient advocacy, and use of electronic and social media, is specified in the NCH Paramedic Program Student Handbook posted at www.nwcemss.org and Harper College Student Handbook posted at <https://myharper.harpercollege.edu/pls/portal/url/ITEM/937272F78B81316DE0402E0A0A2A3059>.

Information relative to guided study, corrective coaching, disciplinary procedures, and student resources is also included in the NCH Paramedic Program Student Handbook.

TEXTBOOK: Bledsoe, B.E., Porter, R.S., Cherry, R.A. (2017). Paramedic Care: Principles & Practice, Vols. 1-5 (5th Edition). New York, Pearson. ISBN-13: 978-0134575964; ISBN-10: 0134575962

PLUS subscription to MyLab™ BRADY (See student handbook for purchase information)

MATERIALS: Personal electronic device for in class use (not a cell phone). If needing to attend virtually, will need a laptop/desktop computer, or equivalent with camera and speaker capabilities and a reliable high speed internet connection that will allow them to use Zoom.

EQUAL OPPORTUNITY: The Paramedic Program does not discriminate on the basis of race, color, religion, sex, national origin, ancestry, age, marital status, sexual orientation, disability, or unfavorable discharge from military service as long as the candidate meets statutory and regulatory requirements of licensure as a paramedic in the State of Illinois and is able to perform all the essential functions of the paramedic profession during the course with or without reasonable accommodation (See student handbook for essential job functions of a paramedic) .

STUDENTS WITH DISABILITIES and Academic Accommodations: If you have a disability (learning, ADHD, physical, psychological or other) and are requesting an accommodation, please contact the Course Program Director at the *beginning* of the course to discuss. Students with disabilities should also contact Harper College Access and Disability Services (ADS) to discuss reasonable accommodations. Any student already connected with ADS should provide the Course Program Director a copy of your approved Accommodation Plan. The Program will consider the requests and make a determination on a case by case basis. Access and Disability Services is located in Building D, D119; on the Harper College campus; 847.925.6266 (voice) or 224.836.5048 (videophone for deaf and hard of hearing callers only).

STUDENT E-MAIL NOTIFICATIONS: All notifications related to student registration or other Harper College business activities are sent to students via G-mail account that is assigned to students upon registration. Students access the G-mail account via an icon in the student portal (where you registered for classes). Please check this e-mail frequently. To forward e-mails from this account to a personal e-mail account please follow the instructions for forwarding Harper e-mail available to <http://harper.blackboard.com/> . Students must provide the NWC EMSS office with an e-mail address to be used for all direct correspondence relative to class academic and clinical activities.