School of Nursing and Health Professions Syllabus

HUDSON COUNTY COMMUNITY COLLEGE

HUDSON is HOME!

THIS COURSE IS OFFERED THROUGH COOPERATIVE AGREEMENT WITH RWJ-BARNABAS HEALTH EMS MOBILE TRAINING CENTER

Term: **Credit: 4**

Course Code: EMT 120

Title of Course: PHARMACOLOGICAL INTERVENTIONS

Days & Times:

Location:

Instructor:

Office Hours:

Office Location:

Email:

Phone:

Prerequisites: ENG 101, BIO 211

Corequisites: EMT 101, 110, 124

COURSE DESCRIPTION: This course is meant to provide students with a thorough understanding of the mechanisms of action, indications, contraindications, precautions, side effects and interactions of drugs administered in the pre- hospital setting. In order to accomplish this objective, students will employ a methodology that includes an in-depth study of pharmacodynamics, pharmacokinetics, methods of medication administration, and drug classifications. Students will also be introduced to the concepts of cellular physiology, acid/base balance, and fluid and electrolyte derangements as they pertain to IV medication administration. Through a variety of didactic and clinical experiences, students will grow in their understanding of medication administration in the pre-hospital setting, and must exhibit an understanding of which drugs to use in treating specific pathologies and medical emergencies.

COURSE OBJECTIVES:

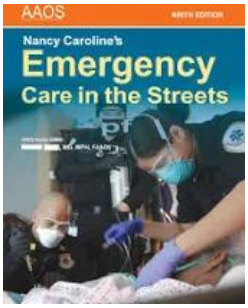
1. Explain the important historical trends in pharmacology.
2. Differentiate among schedule I, II, III, IV, and V substances and list examples of substances in each schedule.
3. Identify the Food and Drug Administration approval process and the FDA classifications for newly approved drugs.
4. Apply the principles of the metric system and mathematics to calculate drug dosages for administration.

5. Explain the actions of drugs on the sympathetic and parasympathetic nervous systems.
6. Describe the anatomy and physiology pertinent to pharmacology.
7. Explain the indications, contraindications, actions, precautions and side effects of all the medications administered in the pre-hospital setting
8. Define the "six rights" of drug administration and correlate them with the principles of medication administration.
9. Practice antiseptic techniques of medication administration.
10. Perform thorough patient assessments and formulate corresponding treatment plans, being able to administer medications appropriate to the patient condition.

Lab/Clinical:

TEXTBOOK REQUIRED:

Mejia, A. (2023). *Nancy Caroline's Emergency Care in the Streets.* Burlington: Jones and Bartlett.



EVALUATION METHODS: Students must maintain a grade of 80% or better to pass. The course grade will be determined by:

Grade Item	Weight
Homework	5%
Quizzes	5%
Written Assignments	5%
Skill Portfolio	5%
Affective Behavior	10%
Practical Final	10%
Tests	30%
Final Exam	30%

WEEKLY OUTLINE: Schedules, Topics, Due Dates, Test Dates and all other schedule information is found in the Learning Management System. Topics included are: Pharmacology, and Drug Classifications.

HCCC POLICIES, STATEMENTS, AND SERVICES:

https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html