

RCP 111
THERAPEUTICS AND DIAGNOSTICS

COURSE DESCRIPTION:

Prerequisites: 5 & 3 5 & 3 5 & 3 % , 2
Corequisites: 5 & 3 5 & 3

7 KLV FRXUVH SURYLGHV HPSKDVLV RQ WKHUDSHXWLF DQG
DSSO\LQJ SUREOHP VROYLQJ VWUDWHJLHV LQ WKH SDWLHQ
GHFLVLRQ PDNLQJ DQG SUDFWLFHQJ SURIHVVLRQDO UHVSR
FOLQLFDO SUDFWLFH 8SRQ FRPSOHWLRQ VWXGHQWV VKRX
UHVSLUDWRU\ WKHUDS\ FRQFHSWV DQG SURFHGXUHV WKUR
Course Hours Per Week: Class, 4. Lab, 3 Semester Hours Credit: 5.

LEARNING OUTCOMES:

At the completion of the course requirements, the students should understand:

- I. Assessment of Respiratory disorders
- II. Basic therapeutics
- III. Patient education
- IV. Long-term care

OUTLINE OF INSTRUCTION:

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- ii. Electrolytes
- iii. Sputum
- iv. Gram staining
- b. Performing and interpreting electrocardiograms
 - i. Set up leads for a 12 lead ECG
 - ii. Recognize pertinent ECG patterns
 - iii. Discuss PQRST Complex and heart physiology
- c. Pulmonary function testing
 - i. Restrictive versus obstructive patterns
- d. Thoracic imaging
 - i. Chest radiograph
 - ii. Ultrasonography
 - iii. Computed tomography
 - iv. Magnetic resonance imaging
- e. Interpret and use an ABG in patient assessment
 - i. Analysis and monitoring of gas exchange
- f. Non-invasive monitoring
 - i. Pulse oximetry
 - ii. End-tidal CO₂
- g. Point-of-care testing

- II. Basic therapeutics
 - a. Airway management
 - i. Airway suctioning
 - ii. Obtaining a sputum sample for analysis
 - iii. Objectives and hazards of suctioning
 - iv. Usage and care of all artificial airways
 - v. Bronchoscopy
 - b. Lung expansion therapy
 - i. Concepts of hyperinflation
 - ii. Choosing the right modality
 - iii. Hazards and objectives of various modalities
 - c. Bronchial hygiene therapy
 - i. Choosing the right modality
 - ii. Hazards and objectives of various modalities

- III. Patient education
 - a. Health promotion

- IV. Long-term care
 - a. Concepts of cardiopulmonary rehabilitation
 - b. Home care
 - i. Oxygen administration
 - ii. Activities of daily living
 - iii. Equipment care
 - iv. Medicare requirements

REQUIRED TEXTBOOKS AND MATERIALS:

Textbooks to be selected by the instructor.

STATEMENT FOR STUDENTS WITH DISABILITIES:

6WXGHQWV ZKR UHFTXRLPFR GEDMGWRB Q\ SK\VLFDQ SV\FKROR
 GLVDELOLW\ DUH HQFRXUDJHG WR UHTXHVW DVVLVWDQFH I
 ILUVW WR ZR ZODHW /LNHZLVH VWKXQWV HZKRU SIRQFH QPWLGLD
 GXH WR DQ\ FKURQLF KHDOWK FRQGLWLRQ DUH HQFRXUDJH
 VHUYLFHV FRXQVHORZHU ZNWKQ WVKH&RLXQWV QZBV FDQ EH FR
 RU E\ YLVLVWLQJ WVKH 6WXGHQW 'HYHORSPHQW 2111
 6HUYLFHV &HQWHU URRP