

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 UHVS  
FOLQLFDO SUDFWLFH 8SRQ FRPSOHWLRQ VWXGHQWV VKR  
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 CO<sub>2</sub>
- 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&RLXQWHV ZBV FDQ EH FR  
 RU E\ YLVLWLQJ WVKH 6WXGHQW 'HYHORSPHQW 2111  
 6HUYLFHV &HQWHU URRP