



Course Outline

2026-2027 Catalog

NSG 35 - Cardiovascular and Respiratory Nursing

Catalog Description

Transfer Status: CSU

Prerequisite: NSG 18, NSG 21, NSG 22, NSG 23, NSG 24, NSG 28

Corequisite: NSG 31, NSG 32, NSG 36, NSG 37

Unit(s): 3.00

Lecture: 51.00 Contact hours/102.00 Out of class hours/153.00 Total hours/3.00 Unit(s)

Total: 51.00 Contact hours/102.00 Out of class hours/153.00 Total hours/3.00 Unit(s)

Course Description: This course introduces students to the nursing process related to adult clients experiencing disorders of the respiratory, cardiovascular, hematologic, and immune systems. Pathophysiology and medical treatment of diseases of the respiratory, cardiovascular, and immune systems are addressed. Graded only.

Objectives

Upon successful completion of this course, the student should be able to:

1. Describe the pathophysiology of the respiratory, cardiovascular, hematologic, and immune systems.
2. Utilize the nursing process to care for adults experiencing respiratory, cardiovascular, hematologic, and immune system disorders.
3. Describe nursing skills applicable to the nursing care of adults with respiratory, cardiovascular, hematologic, and immune system disorders.
4. Explain health maintenance strategies related to respiratory, cardiovascular, hematologic, and immune conditions.
5. Formulate teaching plans for patients with cardiovascular or respiratory disorders to optimize health based on health principles.
6. Discuss cultural needs of individuals with respiratory, cardiovascular, hematologic, and immune disorders.
7. Describe the assessment, diagnosis and treatment of respiratory, cardiovascular, hematologic, and immune system disorders.
8. Describe safe nursing administration of drugs used to treat cardiovascular, respiratory, hematologic, and immune system disorders.

Course Content

Topic Titles / Suggested Time Topic	
	<u>Lecture</u>
<u>Topics</u>	<u>Lec Hrs</u>
Hematology	8.00
Immune System	9.00
Cardiovascular System	18.00
Respiratory System	16.00
Total Hours: 51.00	

Methods of Instruction

- A. Collaborative Group Work
- B. Discussion
- C. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture
- D. Lecture
- E. Reading Assignments
- F. Audio-Visual aids
Case studies

Methods of Evaluation

- A. Exams/Tests
- B. Oral Presentation
- C. Homework
- D. Class participation
- E. Written Assignments

Examples of Assignments

Reading Assignments

1. Read the chapter on obstructive pulmonary diseases in the medical surgical nursing text. Answer instructor prepared objectives. Come to class prepared to discuss the objectives.
2. Read the chapter on hypertensive disorders in the medical surgical nursing text. Answer instructor prepared objectives. Come to class prepared to discuss the objectives.

Writing Assignments

1. Write a 2 to 3 page paper describing normal blood flow through the heart and evaluating the effects of abnormal valve function on patient status.
2. Complete a teaching plan using a case study of a patient at high risk for human immunodeficiency virus exposure focusing on prevention and transmission.

Out-of-Class Assignments

1. Complete worksheet evaluating normal and abnormal arterial blood gasses. Utilize criteria and examples discussed in class for evaluation.
2. Complete a worksheet of common cardiac dysrhythmias identifying the rate and rhythm and typical treatments for each.

Recommended Materials of Instruction

Lewis, S., Heitkemper, M. & Dirksen, S., O'Brien, P. & Bucher, L. (2017). Medical Surgical Nursing - Assessment and Management of Clinical Problems. *St. Louis: Mosby, 10th.*

Vallerand, A. & Sanoski, C. (2017). Davis's Drug Guide for Nurses. *Philadelphia: F.A. Davis, 15th.*

Carpenito-Moyet, L. (2017). Nursing Diagnosis: Application to Clinical Practice. *Philadelphia: Lippincott, Williams, and Wilkins, 15th.*

Lewis, S., Heitkemper, M. & Dirksen, S., O'Brien, P. & Bucher, L. (2016). Supplement to Med-Surg Textbook. *St Louis: Mosby, 10th.*

Thomas, C. (Ed.). (2017). Taber's Cyclopedic Medical Dictionary. *Philadelphia: F.A. Davis, 23rd.*

Pagana, K., & Pagana, T. (2015). Mosby's Manual of Diagnostic and Laboratory Tests. *St Louis: Mosby, 13th.*

Minimum Qualifications

Licensed Vocational Nursing
Nursing (Masters Required)

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