

HOUSTON COMMUNITY COLLEGE SYSTEM
ASSOCIATE DEGREE NURSING PROGRAM
JOHN COLEMAN HEALTH SCIENCE CENTER

RNSG 1343

COMPLEX CONCEPTS OF ADULT HEALTH

CRN 72426
Spring 2011

INSTRUCTOR INFORMATION

Office suite 334, room 330
Office Phone: 713-718-7301
Email: delores.saddler@hccs.edu
Office hours: posted

COURSE DESCRIPTION

“Integration of previous knowledge and skills related to common adult health needs into the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession in the care of adult clients/families in structured health care settings with complex medical-surgical health care needs associated with each body system. Emphasis on knowledge, judgments, skills, and professional values within a legal/ethical framework.”

TABLE OF CONTENTS

Course Description	1
Pre-requisites	3
Co-requisites	3
Course Goal	3
Student Learning Outcomes	3
Learning Objectives	3
SCANS	3
Course Calendar	4
Methods of Accomplishing Learning Outcomes	4
Evaluation	4
Required Textbooks	5
Special Needs	5
Attendance and Tardiness	5
Exam Procedures	5
Policies	6
Testing Protocol	6
Scholastic Dishonesty Policy	6
Tutoring and Remediation	6
Early Alert Statement	7
Academic Information	7
A.D.N. Handbook	7
Professional Behavior	8
Employment of Associate Degree Nursing Students in Hospitals/Agencies	8
Course Expectations Contract	9
Course Outline	10
Unit Learning Outcomes and Related Content (10 Units)	11-40

PRE-REQUISITES

RNSG 1412 and RNSG 1160 Nursing Care of the Childbearing and Childrearing Family
RNSG 2360 Clinical Nursing Adult 1 RNSG 1441 Common Concepts of Adult Health
RNSG 1105 Nursing Skills I
RNSG 1247 Concepts of Clinical Decision Making

CO-REQUISITE (S)

RNSG 2121 Management of Client Care	RNSG 2361 Clinical Nursing Adult Health
RNSG 1144 Nursing Skills II	RNSG 2130 Professional Nursing Review and Licensure Preparation

COURSE GOAL

Utilize critical thinking skills and a systematic problem-solving process as a framework for providing care for adult clients in structured health care settings with complex health care needs, and integrate the roles of the professional nurse in the provision of care of adult clients and families.

STUDENT LEARNING OUTCOMES (SLOs)

1. Compare and contrast the pathophysiology and clinical manifestations of select problems in the acutely chronic or complex clients.
2. Identify therapeutic interventions used regarding health promotion, maintenance, and restoration in the stabilization of acutely ill or complex client.
3. Apply clinical reasoning skills relevant to the care of the adult complex medical-surgical client.

LEARNING OBJECTIVES

Appropriate learning objectives will be supplied in relation to the above listed SLOs , and in accordance with the material covered in each of the topics.

SCANS or CORE CURRICULUM STATEMENT

The U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) to enter the workplace has determined that a total of 43 competencies must be addressed and method(s) of determining competency listed. No competencies have been assigned to RNSG 1343.

COURSE CALENDAR

Placement of content may vary by semester. Refer to your calendar on BlackBoard Vista for specific dates and content. The sequencing is subject to changes as deemed necessary by faculty. Students will be notified of changes as soon as possible.

METHODS OF ACCOMPLISHING LEARNING OUTCOMES

A. Contemporary Technology

1. Computer Assisted Instruction (explanatory and interactive)
2. Classroom Instructional Software
3. Internet Access
4. Medline Access

B. Concept Reinforcement

1. Pre and post lecture quizzes
2. Critical thinking scenarios
3. Seminar activities
4. Study Guide exercises
5. Current research findings and literature discussion
6. Individual faculty-student conferences.

EVALUATION

1. Four (4) multiple-choice unit examinations consisting of a maximum of fifty (50) items per unit exam will be administered during specified, scheduled dates. One hour will be provided for each exam.
2. Two (2) bonus questions, based on previously taught medical-surgical content in the program, will be available with each test. One-half ($\frac{1}{2}$) point for each correct bonus answer will be added to the final grade.
3. All exams are based upon lecture, textbook reading and media assigned.
4. Theory Grading:
 - a) Unit Exam 1 = 25%
 - b) Unit Exam 2 = 25%
 - c) Unit Exam 3 = 25%
 - e) Unit Exam 4 = 25%

Grading Scale: A = 90 - 100
 B = 80 - 89
 C = 75 – 79

D = 60 – 74
F = below 60

*In order to pass the theory component of a course with a RNSG prefix, a minimum Grade of “C” must be achieved.

REQUIRED TEXTBOOKS: All textbooks from RNSG 1441. [*Conversion guide for 11th edition to 12th edition Brunner & Suddarth textbook is posted on Blackboard Vista*]

SPECIAL NEEDS – COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

Any student with a documented disability (e.g. physical, learning, psychiatric, visual, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at their respective college at the beginning of each semester. The faculty is authorized to provide only the accommodations requested by the Disability Support Services Office.

If a student has a disability or needs instructional accommodation due to a disability, please meet with the instructor at the beginning of the course. Documentation, an official letter of accommodation must be provided at this time. The information in this publication may be made available in large print, taped or computer based format upon request.

Students with special needs should refer to the procedure identified in the HCCS Student Handbook. The procedure may be started with a phone call to J.B. Coleman College of Health Sciences Disabilities Counselor.

ATTENDANCE AND TARDINESS

Absences exceeding 12.5% may result in the administrative withdrawal of the student from the course. Daily classroom attendance records will be maintained. It is the responsibility of the student to sign the attendance record on a daily basis. Students will not sign for other students. Failure to sign the roll will constitute an absence for that day.

A student who exceeds the allowed absences can be administratively dropped from the course and not allowed to progress in the ADN program.

EXAM PROCEDURES

1. A period of 60 minutes will be given for unit exams.
2. Test grades will be distributed within or at one week after the exam.

3. Students may review exam by appointment with the instructor. Each exam will be available for review until the next exam.
4. Students who **score less than 75 on an exam must** make an appointment to review the exam with the faculty within one week, and will also meet with the program counselor.

POLICIES

All students will adhere to HCCS policies as delineated in the HCCS Catalog and A.D.N. handbooks.

TESTING PROTOCOL

To insure quality education and equality to all students in the Associate Degree Nursing Program, the following special conditions will apply during testing situations.

1. The instructor controls the options of seating arrangement, movement, leaving the room, and stopping an exam for violation of scholastic dishonesty.
2. All books, papers, notebooks, and personal belongings will be placed away from the desk before testing begins.
3. Any verbal or nonverbal communication between students during a testing situation will be grounds for the termination of the testing. A grade of zero will be recorded and averaged into the final grade.
4. Should a student need to communicate with the instructor, remain seated and raise hand.
5. Any infractions of scholastic dishonesty will be grounds for dismissal from the program.

SCHOLASTIC DISHONESTY POLICY - SEE HCCS STUDENT HANDBOOK CURRENT EDITION.

Honesty in the Classroom: See Associate Degree Nursing Program Student Handbook, current edition.

TUTORING:

Tutoring sessions will be held if at least one student attends.
Attendance will be kept for tutorial classes.

These sessions will be available as needed or requested.

The purpose for the additional offering is to provide clarification of content or concepts discussed during regular class. New content will not be presented during these sessions

REMEDIATION:

Following a unit exam, this time may be used to reinforce content that was not understood or to discuss other previously covered content areas.

If a student needs remediation, an appointment may be made with an instructor during their designated office hours. Faculty office hours will be posted at faculty office doors.

Remediation will be available to any student enrolled in RNSG 1343 who expresses the need for this service. It is expected that the student will make an appointment at least one week ahead of time and come to the session prepared. Student responsibilities include bringing textbook, lecture notes, questions or topics for discussion and following through with all instructor-made assignments. Students will receive extra assignments to facilitate their learning. Successful remediation necessitates an active role for both students and faculty.

EARLY ALERT STATEMENT

The Houston Community College Early Alert program has been established to assist in the overall effort to retain students who are at risk of failing, withdrawing, or dropping a course. This process requires instructional faculty and student support staff to identify students who are performing poorly as early as possible and provide relevant support services to help students overcome their deficiencies. A student is identified when an instructor notices academic or personal difficulties that affect student's academic performance. The possible problem (s) could be tardiness, missed/failed test scores, excessive absences, or a number of other circumstances. Once a referral is made counselors will then contact students to discuss the issues and possible solutions to their academic difficulties.

ACADEMIC INFORMATION

Students are responsible for reading the Houston Community College System Student Handbook to be certain that they understand HCCS policies/procedures which also includes Refunds and Withdrawals from a course.

NOTICE: Students who repeat a course three or more times may soon face significant tuition/fee increases at HCC and other Texas public colleges and universities. Please ask your instructor/counselor about opportunities for tutoring/other assistance prior to considering course withdrawal, or if you are not receiving passing grades.

A.D.N HANDBOOK

Students are responsible for reading within **7 days** of start of semester and complying with the policies and procedures listed in the current Associate Degree Nursing Program Student Handbook.

PROFESSIONAL BEHAVIOR

1. Students are to remain quiet during class time. Should a student need to ask a question or communicate with the instructor, the student is to raise their hand.
2. Students should refrain from interrupting when someone is speaking.
3. Any student disrupting the class may be asked to leave the classroom at the discretion of the Instructor.
4. In consideration of others and of safety, no children are to be brought to the lab skills area or to the classroom. Frequently, the content presented in the classroom is inappropriate for children. Please be aware that children are distracting to other students trying to take notes or exams.
5. Students must abide by the appropriate standards of conduct identified in the student handbook including language and professional behavior.
6. All cell phones and pagers are to be turned off or placed on vibrate during class time.

EMPLOYMENT OF ASSOCIATE DEGREE NURSING STUDENTS IN HOSPITALS OR AGENCIES

The Houston Community College Associate Degree Nursing Program supports the Nursing Practice Act of the State of Texas and is committed to excellence in nursing by nurses appropriately prepared for the service they are rendering. Therefore, the position of the Associate Degree Nursing Program regarding nursing students accepting employment in hospitals or health agencies is as follows:

1. Houston Community College nursing students who accept positions, for which they receive compensation for client care, do so as unlicensed individuals and will not wear the school uniform, laboratory coat with insignia or other indications of their student status, inasmuch as they are not functioning as nursing students but as paid employees.
2. Students are advised to familiarize themselves with the State of Texas Nursing Practice Act so they will recognize the full scope and responsibility of nursing as being more than just a collection of skills. Nursing students who accept positions for pay as Nurses Aides or Professional Student Nurses must recognize that they may be held legally liable for their actions; they should not accept responsibilities nor perform nursing actions beyond their knowledge and skills, or those within the responsibilities of the professional nurse as defined in the Nursing Practice Act.

3. The student is responsible for maintaining the required grade point average and should consider the demands of employment upon the student's time and energy.

XX. COURSE EXPECTATIONS CONTRACTUAL AGREEMENT

RNSG 1343 - CARE OF THE CLIENT WITH COMPLEX HEALTH CARE NEEDS

RNSG 1144 - NURSING SKILLS II

RNSG 2361 – CLINICAL NURSING (COMPLEX HEALTH CARE NEEDS)

Print last name _____

Print first name _____

I have read the syllabi and fully understand the expectations of me as a student in these courses.

My signature below signifies my willingness to comply with all course requirements.

SIGNATURE: _____

DATE: _____

In addition to the course expectations, I agree to neither give nor receive any information about test content in this course.

SIGNATURE: _____

DATE: _____

COURSE OUTLINE:

1. Nursing role in management of clients with complex problems/alterations in Endocrine function.
2. Nursing role in management of clients with complex problems/alterations in Gastrointestinal function.
3. Nursing role in management of clients with complex problems/alterations in Oxygenation function.
4. Nursing role in management of clients with complex problems/alterations in Cardiovascular function.
5. Nursing role in management of clients with complex problems/alterations in Reproductive function.
6. Nursing role in management of clients with complex problems/alterations in Renal function.
7. Nursing role in management of clients with complex problems/alterations in Neurological function.
8. Nursing role in management of clients with complex problems/alterations in Musculoskeletal function.
9. Nursing role in management of clients with complex problems/alterations in Hematological function.
10. Nursing role in management of clients with complex problems/alterations in Oncology.

[Conversion guide for 11th edition to 12th edition Brunner & Suddarth textbook is posted on Blackboard Vista]

UNIT LEARNING OUTCOMES AND RELATED CONTENT

Unit 1 A Nursing role in management of clients with complex problems/alterations in Endocrine Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 1.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex endocrine problems.
- 1.2 Describe the pathophysiology and clinical manifestations of complex endocrine problems.
- 1.3 Discuss the various areas of assessment used in clients with complex endocrine problems.
- 1.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex endocrine problems.
- 1.5 Formulate a plan of care using critical thinking for clients and families with complex endocrine problems in collaboration with other health care professionals.
- 1.6 Apply principles of teaching/learning to clients and families with complex endocrine problems.
- 1.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex endocrine problems.
- 1.8 Apply age-related concepts in the management of clients with complex endocrine problems.
- 1.9 Discuss components of effective community based nursing care of clients with complex problems.
- 1.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions.

Content

Anatomy and physiology of selected endocrine systems

History and physical assessment of endocrine function

Diagnostic studies

Nursing role in management of clients with complex endocrine problems

 Adrenal function

 Thyroid function

 Pituitary function

Community Resources and Referrals

Cultural practices and strategies for health promotion/maintenance

Unit 1 B Nursing role in management of clients with complex problems/alterations in Endocrine Function

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
42	1441	Anatomic and Physiology Overview
	1442-1444	Assessment
	1444	Diagnostic Evaluation
	1445-1448	Pituitary Gland and Specific Disorders: Diabetes Insipidus S.I.A.D.H.
	1448-1470	Thyroid Gland and Specific Disorders Hypothyroidism Hyperthyroidism Thyroid Storm Thyroiditis Thyroid Tumors
	1470-1473	Parathyroid Gland and Specific Disorders Hyperparathyroidism Hypoparathyroidism
	1473-1484	Adrenal Glands and Specific Disorders Pheochromocytoma Adrenocortical Insufficiency (Addison's) Cushing's Syndrome Corticosteroid Therapy

**Unit 1 C Nursing role in management of clients with complex problems/alterations in
Endocrine Function**

Library:

a. Media

b. Articles

Daub, K. F. (2007). Pheochromocytoma: Challenges in Diagnosis and Nursing Care
Nursing Clinics of North America. 42 (1). Pp 101-111.

Tsegay, E. (2008). Pheochromocytoma: a rare tumor in adults and children. RN 2008. 71
(6). Pp. 31-35.

Faunel, J. (2008). Primary aldosteronism in newly diagnosed hypertensive patients.
Journal of Hypertension. 26 (11), 2250.

Pfadt, E. (2006). Acute Adrenal Crisis. Nursing 2006. 36 (8), 80.

c. Computer Lab

Unit 2 A Nursing role in management of clients with complex problems/alterations in Gastrointestinal Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 2.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex gastrointestinal problems.
- 2.2 Describe the pathophysiology and clinical manifestations of complex gastrointestinal problems.
- 2.3 Discuss the various areas of assessment used in clients with complex gastrointestinal problems.
- 2.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex gastrointestinal problems.
- 2.5 Formulate a plan of care using critical thinking for clients and families with complex gastrointestinal problems in collaboration with other health care professionals.
- 2.6 Apply principles of teaching/learning to clients and families with complex gastrointestinal problems.
- 2.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex gastrointestinal problems.
- 2.8 Apply age-related concepts in the management of clients with complex gastrointestinal problems.
- 2.9 Discuss components of effective community based nursing care of clients with complex problems.
- 2.10. Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of gastrointestinal system

History and physical assessment of gastrointestinal function

Diagnostic studies

Nursing role in management of clients with complex gastrointestinal problems

 Oral and esophageal cancer

 Neck dissection

 Peritonitis

 Hepatic disorders

 Hepatic transplantation

 Biliary conditions

 Pancreatitis

 Gastric cancer

 Intestinal and rectal cancers

 Fecal diversions

Cultural practices and strategies for health promotion/maintenance

Unit 2 B Nursing role in management of clients with complex problems/alterations in Gastrointestinal Function

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
35	1148-1153	Cancer of the Oral Cavity
	1166-1171	Esophageal Cancer
37	1220-1227	Gastric Cancer
	1227	Duodenal Tumors
38	1265-1275	Colorectal Cancer
39	1285-1289	Anatomic and Physiologic Overview of Hepatic Disorders
	1287-1289	Assessment and Diagnostic Evaluation
	1289-1308	Hepatic Dysfunction
	1308-1317	Viral Hepatitis
	1317-1333	Hepatic Failure and Cirrhosis
	1333-1336	Cancer of the Liver
	1336-1340	Liver Transplants
40	1345-1347	Anatomic and Physiologic Overview of Biliary Disorders
	1347-1358	Gallbladder Disorders
	1358-1373	Pancreatic Disorders

**Unit 2 C Nursing role in management of clients with complex problems/alterations in
Gastrointestinal Function**

Library:

a. Media

b. Articles

Computer Lab

Unit 3A Nursing role in management of clients with complex problems/alterations in Oxygenation Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 3.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex oxygenation problems.
- 3.2 Describe the pathophysiology and clinical manifestations of complex oxygenation problems.
- 3.3 Discuss the various areas of assessment used in clients with complex oxygenation problems.
- 3.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex oxygenation problems.
- 3.5 Formulate a plan of care using critical thinking for clients and families with complex oxygenation problems in collaboration with other health care professionals.
- 3.6 Apply principles of teaching/learning to clients and families with complex oxygenation problems.
- 3.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex oxygenation problems.
- 3.8 Apply age-related concepts in the management of clients with complex oxygenation problems.
- 3.9 Discuss components of effective community based nursing care of clients with complex problems.
- 3.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of the respiratory tract

History and physical assessment of the respiratory tract

Diagnostic studies

Nursing role in management of clients with complex upper respiratory tract problems

 Cancer of the larynx

Nursing role in management of clients with lower respiratory tract problems

 Chronic obstructive pulmonary disease

 Acute respiratory failure

 Adult respiratory distress syndrome

 Pulmonary hypertension

 Pulmonary emboli

 Chest tumors

 Chest trauma

 Airway management

 Mechanical ventilation

 Thoracic surgery

Psychosocial issues and strategies for health promotion / maintenance

Community resources and referrals

Unit 3 B Nursing role in management of clients with complex problems/alterations in Oxygenation Function

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
21	552 - 563	Anatomic and Physiologic Overview
	563 - 578	Physical Assessment
	578 - 586	Diagnostic Evaluation
22	604 – 605	Sleep Apnea
	608 - 621	Cancer of Larynx
23	655 – 670	Pulmonary Edema, Acute Resp. Failure, Acute Resp Distress Syndrome, Pulmonary Arterial Hypertension, Cor Pulmonale, Pulmonary Embolism, Occupational Lung Disease
	670-682	Lung Cancer, Chest Trauma,
24	686-718	COPD, Bronchiectasis, Asthma, Status Asthmaticus
25	735-776	Airway Management-Endo tubes, Mechanical Ventilation, Thoracic Surgery
35	1153-1161	Neck Dissection for cancer of the larynx

Unit 3 C Nursing role in management of clients with complex problems/alterations in Oxygenation Function

Library:

a. Media

VTC	6703	Artificial Airway
VTC	6704	Care of Clients with Chest Tubes
VTC	6594	Chest Tubes
VTC	8002	Mechanical Ventilation
VTC	8003	Mechanical Ventilation - Nursing Management
VTC	6589	Mechanical Ventilation
VTC	7903	Nursing Management of COPD
VTC	6700	Oropharyngeal, Nasopharyngeal and Nasotracheal Suctioning
VTC	4829	Tracheobronchial Suctioning of the Intubated Patient
VTC	13372	Respiratory Disorders # 2

b. Articles

Hunter, K. (2008). Chest drain removal. Nursing Standard. July 16 22 (45), 35-38.

c. Computer Lab

Care of Chest tubes (Under Psychomotor Skills)

Unit 4 A Nursing role in management of clients with complex problems/alterations in Cardiovascular Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 4.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex cardiovascular problems.
- 4.2 Describe the pathophysiology and clinical manifestations of complex cardiovascular problems.
- 4.3 Discuss the various areas of assessment used in clients with complex cardiovascular problems.
- 4.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex cardiovascular problems.
- 4.5 Formulate a plan of care using critical thinking for clients and families with complex cardiovascular problems in collaboration with other health care professionals.
- 4.6 Apply principles of teaching/learning to clients and families with complex cardiovascular problems.
- 4.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex cardiovascular problems.
- 4.8 Apply age-related concepts in the management of clients with complex cardiovascular problems.
- 4.9 Discuss components of effective community based nursing care of clients with complex problems.
- 4.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of cardiovascular system

History and physical assessment of cardiovascular function

Diagnostic studies

Nursing role in management of clients with complex cardiovascular problems

 Coronary artery disease: Myocardial infarction

 Cardiovascular surgical client

 Cardiac vascular disorders: aneurysms

Cultural practices and strategies for health promotion/maintenance

Community resources and referrals

Unit 4 B Nursing role in management of clients with complex problems/alterations in Cardiovascular Function

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
28	874-885	Management of Patients with C.A.D: Myocardial Infarction
	889-912	Coronary Artery Bypass Graft Postoperative Cardiac Patient
31	997-1001	Management of Patients with Vascular Disorders: Aneurysms and Dissecting Aorta
27	823-842	Management of Patients with Dysrhythmias And Conduction Problems
37	913 - 920	Management of Patients with Vascular Disorders: Aneurysms

Unit 4 C Nursing role in management of clients with complex problems/alterations
in Cardiovascular Function

Library:

a. Media

VTC 6101	Vascular system-Assessment
VTC 5373	Cardiac Catheterization and Angioplasty
VTC 6240	Cardiovascular Disorders
VTC 5429	Cardiovascular System-Med-Surg Clinical Setting
VTC 8001	Introduction to Critical Care Nursing
VTC 6699	Central Venous Access Devices
VTC 8733	Nursing Care of Central Venous Catheters
VTC 5061	Hemodynamic Monitoring: Swan-Ganz Catheters
VTC 8004	Hemodynamic Pressure Monitoring
VTC 8005	Hemodynamic Pressure Monitoring- Nursing Management
VTC 7904	Nursing Management of Myocardial Infarction
VTC 13340	Cardiac Nursing
VTC 13347	Cardiac Emergencies
VTC 1539	Cardiac Dysrhythmia Analysis and Intervention
VTC 13332	Dysrhythmia Analysis II
VTC 13334	Dysrhythmia Analysis III
VTC 13025	Reading ECG Rhythm Strips

b. Articles

- Harteveldt, R. (2008). Cardiac Assessment needs to be a core Skill. Nursing Times. 104 (38). P. 10.
- Nursing (2008). Editorial. Don't assume that your patient is too young to have an M.I. 11 (9). Pp103-104.
- Nursing (2008). Editorial. Women are less likely to get treatments for heart attacks. 11 (11). Pp 130-131.

c. Computer

CD-ROM	CDR310	Interactive Electrocardiography
--------	--------	---------------------------------

Unit 5 A Nursing role in management of clients with complex problems/alterations in Reproductive Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 5.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex reproductive problems.
- 5.2 Describe the pathophysiology and clinical manifestations of complex reproductive problems.
- 5.3 Discuss the various areas of assessment used in clients with complex reproductive problems.
- 5.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex reproductive problems.
- 5.5 Formulate a plan of care using critical thinking for clients and families with complex reproductive problems in collaboration with other health care professionals.
- 5.6 Apply principles of teaching/learning to clients and families with complex reproductive problems.
- 5.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex reproductive problems.
- 5.8 Apply age-related concepts in the management of clients with complex reproductive problems.
- 5.9 Discuss components of effective community based nursing care of clients with complex problems.
- 5.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of reproductive system

History and physical assessment of reproductive function

Diagnostic studies

Nursing role in management of clients with complex reproductive problems

 Breast Cancer

 Female pelvic cancers

 Prostate disorders

Social trends, disease prevention, and health promotion strategies

Unit 5 B Nursing role in management of clients with complex problems/alterations in Reproductive Function

Reading Assignment: Brunner and Suddarth : Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
47	1682-1694	Malignant Conditions of the Cervix Uterus, Vulva, Vagina, Fallopian Tubes, Ovary,
	1694-1697	Radiation Therapy
48	1712-1731	Malignancy of the Breast
	1731-1735	Breast Reconstruction
49	1770-1773	Cancer of the Prostate
		Cancer of the Testes
		Prostate Surgery
		Epididymitis

**Unit 5 C Nursing role in management of clients with complex problems/alterations in
Reproductive Function**

Library:

a. Media

VTC - 10228 Prostate Surgery Part 2
VTC -10222 Prostate Cancer
VTC -7907 Vol 6 Nursing Management of Breast Cancer

b. Articles

Harmer, V. (2008). Breast Cancer Part 3: Advanced Cancer and Psychological Implications. *British Journal of Nursing*, 17, 1088-1098.

Tinari, Mary Alice. Cervical cancer prevention and treatment. *Nursing made incredibly Easy*. Nov/December 2008 pp. 32-40 Vol 6, Number 6.

c. Computer Lab

Unit 6 Nursing role in management of clients with complex problems/alterations in Renal and Urological Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 6.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex renal and urological problems.
- 6.2 Describe the pathophysiology and clinical manifestations of complex renal and urological problems.
- 6.3 Discuss the various areas of assessment used in clients with complex renal and urological problems.
- 6.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex renal and urological problems.
- 6.5 Formulate a plan of care using critical thinking for clients and families with complex renal and urological problems in collaboration with other health care professionals.
- 6.6 Apply principles of teaching/learning to clients and families with complex renal and urological problems.
- 6.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex renal and urological problems.
- 6.8 Apply age-related concepts in the management of clients with complex renal and urological problems.
- 6.9 Discuss components of effective community based nursing care of clients with complex problems.
- 6.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of the renal and urinary tract

History and physical assessment of the renal and urinary tract

Diagnostic studies

Nursing role in management of clients with complex renal and urinary problems

 Renal/Urinary Tract Cancers

 Renal Surgery

 Acute renal failure

 Chronic renal failure

 Kidney Transplantation

 Hemodialysis

 Peritoneal Dialysis

 Arteriovenous Access

Community resources and referrals

Unit 6 B Nursing role in management of clients with complex problems/alterations in Renal and Urological Function

Reading Assignment: **Brunner and Suddarth: Medical Surgical Nursing 11th edition.**

Chapter	Pages	Content
44	1515-1517	Common Fluid and Electrolyte Imbalances (Review)
	1517-1521	Primary Glomerular Diseases
	1521-1531	Renal Failure
	1531-1552	Dialysis
	1552-1560	Kidney Surgery
	1560-1563	Kidney Transplantation
	1563-1565	Renal Cancer
45	1596-1597	Urinary Tract Cancers

**Unit 6 C Nursing role in management of clients with complex problems/alterations
in Renal and Urological Function**

Library:

a. Media

VTC 11225	Acute and Chronic Renal Failure
VTC 7913	Nursing Management of the Patient with Chronic Renal Failure
VTC 10227	Kidney Transplant
VTC 10675	The Arteriovenous Graft
VTC 10685	The Native Arteriovenous Fistula

b. Articles

Appel, S., et al. (2008, Fall) Understanding Acid-Base Balance. **ED Insider** 9-11

Polzein, G. (2007, Nov/Dec) Chronic Kidney Disease and Kidney Failure Home Healthcare Nurse 25 (10) 655-660

Saccomano, S, et al (2008, Apr) Managing Acute renal Failure, **Men in Nursing** . 3(2) 32-42

c. Books

Counts, Caroline (editor) (2008). *Core Curriculum for Nephrology Nursing* (5th ed). Pitman, NJ: American Nephrology Nursing's Association Core

d. Computer Lab

CAIs under ADN Program—Fluid and Electrolytes Parts I & II

The Point or CD (book) Fluid and Electrolyte tutorial

Unit 7A Nursing role in management of clients with complex problems/alterations in Neurological Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 7.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex neurological problems.
- 7.2 Describe the pathophysiology and clinical manifestations of complex neurological problems.
- 7.3 Discuss the various areas of assessment used in clients with complex neurological problems.
- 7.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex neurological problems.
- 7.5 Formulate a plan of care using critical thinking for clients and families with complex neurological problems in collaboration with other health care professionals.
- 7.6 Apply principles of teaching/learning to clients and families with complex neurological problems.
- 7.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex neurological problems.
- 7.8 Apply age-related concepts in the management of clients with complex neurological problems.
- 7.9 Discuss components of effective community based nursing care of clients with complex problems.
- 7.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of the neurological systems

History and physical assessment of neurological function

Diagnostic studies

Nursing role in management of clients with complex neurological problems

- Increased intracranial pressure

- Brain tumors

- Head injuries

- Spinal cord injuries

- Neurogenic Bladder

- Intravertebral herniation

- Surgical interventions

Cultural practices and strategies for health promotion / maintenance

Community resources and referrals

**Unit 7 B Nursing role in management of clients with complex problems/alterations
in Neurological Function**

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
Management of Patients with Neurological Dysfunction		
61	2169-2180	Increased Intracranial Pressure
	2180-2190	Intracranial Surgery
Management of Patients with Neurological Trauma		
63	2233-2235	Head Injury
	2235-2250	Brain Injury
	2250-2261	Spinal Cord Injury
45	1584-1589	Neurogenic Bladder
Management of Patients with Oncologic Neurologic Disorders		
65	2301-2309	Brain Tumors
	2309-2311	Spinal Cord Tumors
	2324-2331	Degenerative Disk Disease and Disk Herniation
	2331	Post Polio Syndrome

Unit 7 C Nursing role in management of clients with complex problems/alterations in Neurological Function

Library:

a. Media

VTC 6242	Neurological Disorders
VTC 6274	Neurological Systems Disorders
VTC 4206	Spinal Immobilization
VTC 8007	Intracranial Pressure Monitoring
VTC 4598	Nursing Management of Acute Head Injuries
VTC 9408	Brain Surgery
VTC 7973	Examining the Neurologic System

b. Articles

Dawes, E., et al (2007) Monitoring and Recording Patients' Neurological Observations. **Nursing Standard** 22 (10) 40-45

Moreda, M. et al (2009) Keeping the Balance: Understanding Intracranial Pressure Monitoring. **Nursing 2009 Critical Care** 4 (6) 42-47

Wyatt, A., et al (2009) Keeping the Balance: Understanding Intracranial Pressure. **Nursing 2009 Critical Care** 4 (5) 18-23

Unit 8 A Nursing role in management of clients with complex problems/alterations in Musculoskeletal Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 8.1 Integrate knowledge of the anatomy and physiology as it relates to clients with complex musculoskeletal problems.
- 8.2 Describe the pathophysiology and clinical manifestations of musculoskeletal problems.
- 8.3 Discuss the various areas of assessment used in clients with musculoskeletal problems.
- 8.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to musculoskeletal problems.
- 8.5 Formulate a plan of care using critical thinking for clients and families with complex musculoskeletal problems in collaboration with other health care professionals.
- 8.6 Apply principles of teaching learning to clients and families with complex musculoskeletal problems.
- 8.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex musculoskeletal problems.
- 8.8 Apply age-related concepts in the management of clients with complex musculoskeletal problems.
- 8.9 Discuss components of effective community based nursing care of clients with complex problems.
- 8.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of the musculoskeletal system
History and physical assessment of the musculoskeletal function
Diagnostic studies

Nursing role in the management of clients with complex musculoskeletal problems

- External fixators
- Traction
- Orthopedic surgical client
- Joint replacement
- Bone tumors
- Musculoskeletal trauma: fractures

Community resources and referrals

Unit 8 B Nursing role in management of clients with complex problems/alterations in Musculoskeletal Function

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
66	2337-2342	Anatomic and Physiologic Overview
	2342-2350	Assessment
	2350-2352	Diagnostic Evaluation
67	2365-2389	External Fixator, Traction, Orthopedic Surgery
68	2417-2422	Bone Tumors
69	2430-2440	Fractures-Healing and Complications
	2440-2460	Fractures of Specific Sites

Unit 8 C Nursing role in management of clients with complex problems/alterations in Musculoskeletal Function

Library:

a. Media

VTC	7902	Nursing Management of Hip Fracture
VTC	4591	Traction - Checks and Balances
VTC	13373	Musculoskeletal Disorders # 3

b. Articles

Mackintosh, C., & Elson, S. (2008). Chronic pain: clinical features, assessment and treatment. *Nursing Standard*, 23 (5), 48-56.

Fitch, M., & Maxwell, C. (2008). Bisphosphonate Therapy for Metastatic Bone Disease: The Pivotal Role of Nurses in patient Education. *Oncology Nursing Forum*, 35 (4), 709-713.

c. Computer Lab

Unit 9 A Nursing role in management of clients with complex problems/alterations in Hematological Function

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 9.1 Integrate knowledge of the anatomy and physiology as it relates to clients with Complex hematological problems.
- 9.2 Describe the pathophysiology and clinical manifestations of complex hematological problems.
- 9.3 Discuss the various areas of assessment used in clients with complex hematological problems.
- 9.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to complex hematological problems.
- 9.5 Formulate a plan of care using critical thinking for clients and families with complex hematological problems in collaboration with other health care professionals.
- 9.6 Apply principles of teaching/learning to clients and families with complex hematological problems.
- 9.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with complex hematological problems.
- 9.8 Apply age-related concepts in the management of clients with complex hematological Problems.
- 9.9 Discuss components of effective community based nursing care of clients with complex hematological problems.
- 9.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions

Content

Anatomy and physiology of hematological system

History and physical assessment of hematological function

Diagnostic studies

Nursing role in management of clients with hematological problems

Anemia

Polycythemia Vera

Leukopenia and Agranulocytosis

Leukemia

Malignant lymphoma

Multiple myeloma

Bleeding disorders

Cultural practices and strategies for health promotion / maintenance

Community resources and referrals

Unit 9 B Nursing roles in management of clients with complex problems/alterations in Hematological Function

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
33	1036-1043	Anatomic and Physiologic Overview
	1043-1045	Assessment of Hematologic Disorders
	1045-1064	Anemias
	1064-1067	Polycythemia
	1067-1078	Leukemia
	1080-1082	Lymphoma
	1082-1084	Multiple Myeloma
	1084-1092	Bleeding Disorders
	1092-1102	Acquired Coagulation Disorders
	1102-1107	Therapies for Blood Disorders
	1107-1112	Blood Transfusions
	1112-1113	Transplantation

**Unit 9 C Nursing role in management of clients with complex problems/alterations
in Hematological Function**

Library:

a. Media

VTC 6697 Blood Administration
VTC 6239 Blood Disorders
VTC 6272 Blood Disorders: Cardiovascular Disorders

b. Articles

Craig, K.; Hopkins-Pepe (2006). Nursing 2006, 36(5), 52-53.

c. Computer Lab

C.D. ROM: Bodyworks 3.0 An Adventure in Anatomy

Unit 10 Nursing role in management of clients with complex problems/alterations in the client with cancer

Learning Outcomes

At the completion of the unit the student will have been provided with the learning activities to:

- 10.1 Integrate knowledge of the anatomy and physiology as it relates to clients with oncologic problems.
- 10.2 Describe the pathophysiology and clinical manifestations of oncologic problems.
- 10.3 Discuss the various areas of assessment used in clients with oncologic problems.
- 10.4 Describe therapeutic interventions used regarding health promotion, maintenance, and restoration/ rehabilitation related to oncologic problems.
- 10.5 Formulate a plan of care using critical thinking for clients and families with oncologic problems in collaboration with other health care professionals.
- 10.6 Apply principles of teaching learning to clients and families with oncologic problems.
- 10.7 Describe safe nursing practice within legal/ethical parameters when caring for clients with oncologic problems.
- 10.8 Apply age-related concepts in the management of clients with oncologic problems.
- 10.9 Discuss components of effective community based nursing care of clients with oncologic problems.
- 10.10 Evaluate clients' and their families' responses and outcomes to therapeutic interventions.

Content

Pathophysiology of malignant changes
Related history and physical assessment
Diagnostic studies
Nursing role in management of oncologic problems
 Classification of tissue origin
 Characteristics of a malignant tumor
 Epidemiology
 Treatment modalities
 Oncologic conditions and complications
 Discharge planning
Concepts of hospice care
Community resources and referrals
Psycho-social/spiritual issues

**Unit 10 B Nursing role in management of clients with complex problems/alterations
in the client with cancer**

Reading Assignment: Brunner and Suddarth: Medical Surgical Nursing 11th edition.

Chapter	Pages	Content
16	381	Epidemiology
	383	Pathophysiology
	388	Detection and Prevention
	389	Diagnosis
	391-403	Management
	403-417	Plan of Care
	418	Targeted Therapies
	422-423	Unproven and Unconventional Therapies
	423-434	Nursing Process
	434	Rehabilitation
	436-437	Gerontologic Considerations
	437-443	Advanced Cancer

**Unit 10 C Nursing role in management of clients with complex problems/alterations
in the client with cancer**

Library:

a. Media

VTC 10030 Cancer Emergencies
VTC 10632 Death: a Personal Understanding
VTC 9365 Toward a Better Death
VTC Oncology Nursing Society: The Power of Presence
 (in D. Saddler's office)

b. Articles

Journal Articles (your choice)
Oncology Nursing Forum
Clinical Journal of Oncology Nursing