

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

RNSG 1343

COMPLEX CONCEPTS OF ADULT HEALTH

CRNs 75698

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INSTRUCTOR INFORMATION

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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.”

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PRE-REQUISITES

RNSG 1412 and RNSG 1460 Nursing Care of the Childbearing and Childrearing Family
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

PROGRAM STUDENT LEARNING OBJECTIVE 2014

Upon completion of the course, students will be able to apply cognitive knowledge in the successful completion of an exit examination.

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 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. Competencies assigned to RNSG 1343 are based on the TBON Differentiated Essential Competencies (DECs).

COURSE CALENDAR

Placement of content may vary during semester. Refer to your calendar on Eagle Online 1.9 for specific dates and content changes. The sequencing is subject to changes as deemed necessary by faculty. Students will be notified of changes as soon as possible. Course calendar available under separate heading.

METHODS OF ACCOMPLISHING LEARNING OUTCOMES

A. Contemporary Technology

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

B. Concept Reinforcement

1. Critical thinking scenarios
2. Case studies
3. Individual faculty-student conferences.
4. Evidence Based Practice

EVALUATION

1. Four (4) 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. A final comprehensive examination consisting of a maximum of 100 items, and a HESI benchmark examination at the completion of the course.
2. Class participation
3. Theory Grading:
 - a) Unit Exam 1 = 15%
 - b) Unit Exam 2 = 15%
 - c) Unit Exam 3 = 15%
 - e) Unit Exam 4 = 15%Final 20%
HESI for medical-surgical nursing 20%

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: Lewis, et al. Textbook of Medial Surgical Nursing, 8th edition.

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. Final exams will be allowed 120 minutes with no review. The HESI evaluation exam will be allowed 180 minutes.
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 senior advisor.

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:

Students who need tutoring are expected to contact the Academic Success Center. Students may also schedule a tutoring session with the instructor as needed.

The purpose for the additional offering is to provide clarification of content or concepts discussed during regular class.

REMEDIATION:

Remediation is implemented for students in danger of failing either due to less than passing grades on examination, attendance, or other as needed and expressed by the student.

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 that 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.

XX. COURSE EXPECTATIONS CONTRACTUAL AGREEMENT (Please indicate appropriate course)

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

_____ **RNSG 2361 – Clinical Nursing, Adult Health II**

Print last name _____

Print first name _____

I have read the syllabus and fully understand the expectations of me as a student in this course.

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.

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: Lewis, et al: Medical Surgical Nursing 8th Edition.

Chapter	Pages	Content
48 (Review)	1199 – 1207	Anatomic and Physiology Overview
	1207 – 1211	Assessment
	1212 – 1216	Diagnostic Evaluation
49 (Review)	1218	Diabetes Mellitus – Pathophysiology
	1222	Clinical Manifestations
	1222 – 1223	Diagnostic Evaluation
	1230 – 1232	Nutritional Therapy
	1242 – 1244	Diabetic Ketoacidosis
	1244	Hyperglycemia
	1245	Hypoglycemia
	1246 – 1252	Chronic Complications
50	1204	Pituitary Gland and Specific Disorders:
	1259 – 1260	S.I.A.D.H
	1260 – 1262	Diabetes Insipidus
	1269-1272	Thyroid Gland and Specific Disorders:
	1263 – 1269	Hyperthyroidism
	1263	Thyroiditis
	1269 – 1272	Hypothyroidism
	1276	Adrenal Glands and Specific Disorders
	1276 – 1280	Cushing’s Syndrome
	1277	Corticosteroid Therapy
	1280 – 1284	Adrenocortical Insufficiency (Addison’s)

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: Lewis, et al: Medical Surgical Nursing 8th Edition.

Chapter	Pages	Content
42 (Review)	Upper Gastrointestinal	
	971	Gastroesophageal Reflux Disease (GERD)
	972	Esophagitis
	975	Hiatal Hernia
	985	Gastritis
	987	Peptic Ulcer Disease (PUD)
	988	Duodenal Ulcer
43 (Review)	Lower Gastrointestinal	
	1007	Diarrhea
	1012	Constipation
	1020	Appendicitis
	1021	Peritonitis
	1022	Crohn's Disease
	1022	Gastroenteritis
	1022	Inflammatory Bowel Disease (IBD)
	1022	Ulcerative Colitis
	1029	Intestinal Obstruction
	1031	Paralytic Ileus
	1046	Diverticula
	1048	Hernia
44	Liver, Pancreas, and Biliary Tract Problems	
	1059	Hepatitis
	1072	Cirrhosis
	1074	Portal Hypertension
	1075	Acites
	1075	Esophageal Varices
	1076	Hepatic Encephalopathy
	1088	Acute Pancreatitis
	1093	Chronic Pancreatitis/Pancreatic Cancer
	1095	Cholecystitis
	1095	Cholelithiasis
	977	Esophageal Ca
	998 – 1001	Stomach Ca
	1035 – 1038	Colorectal Ca
	1086 – 1087	Cancer of the Liver

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: Lewis, et al: Medical Surgical Nursing, 8th Edition.

Chapter	Pages	Content
28	559 – 560 571 – 577 566 – 577 577 - 580 577 – 582 580 582 – 583; 614	Lung Disease Thoracic Surgery Chest Trauma Pulmonary Edema Pulmonary Embolism Pulmonary Arterial Hypertension Cor Pulmonale
29	610 – 631	Chronic Obstructive Pulmonary Disease (COPD)
63	1703 – 1713	Mechanical Ventilation
68	1744 – 1751 1756 – 1761	Acute Respiratory Failure Respiratory Distress Syndrome

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/alteration in Cardiovascular Function

Reading Assignment: Lewis, et al: Medical Surgical Nursing, 8th Edition

Chapter	Pages	Content
34	760 – 778	Management of Patients with Coronary Artery Disease (CAD)
	778 – 782	Myocardial Infarction
	783 – 785	Coronary Artery Bypass Graft
36	818 – 839	Management of Patients with Dysrhythmias
38	866 – 893	Management of Patients with Vascular Disorders:
	867	Aneurysms
	872 -873	Dissecting Aorta

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

 Abnormal vaginal bleeding

 Female pelvic disorders

 Benign Prostatic Hyperplasia

 Prostatitis

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: Lewis, et al: Medical Surgical Nursing, 8th Edition.

Chapter	Pages	Content
54 (Review)		Female Reproductive Problems
	1350	Dysmenorrhea
	1351 – 1352	Abnormal Vaginal Bleeding
	1353 – 1356	Perimenopausal and Postmenopausal
	1358 – 1359	Pelvic Inflammatory Disease (PID)
	1359 – 1361	Endometriosis
	1361	Leiomyomas (Fibroids)
	1372	Fistula
55 (Review)		Male Reproductive Problems
	1378 – 1386	Benign Prostatic Hyperplasia (BPH)
	1388 – 1391	Prostate Surgery
	1393	Prostatitis
	1395	Epididymitis
	1395	Hydrocele
	1395	Orchitis
	1397	Vasectomy
	1398 – 1400	Erectile Dysfunction (ED)
	1311 – 1319	Breast Ca
	1362 – 1364	Cervical Ca
	1364 – 1365	Endometrial Ca
	1365 – 1366	Ovarian Ca
	1386 – 1388	Prostate Ca
	1396 – 1397	Testicular Ca

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

 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: Lewis, et al: Medical Surgical Nursing, 8th Edition.

Chapter	Pages	Content
17 (Review)	309 – 325	Common Fluid and Electrolyte Imbalances
46	1142 – 1143 1155 – 1159	Polycystic Kidney Disease Urinary Diversion
47	1165 – 1167 1170 – 1181 1171 1181 – 1189 1189 – 1194	Acute Kidney Surgery Chronic Kidney Disease End Stage Renal Disease (ESRD) Dialysis Kidney Transplantation
	1144 – 1145 1145 – 1146	Kidney Ca Bladder Ca

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: Lewis, et al: Medical Surgical Nursing, 8th Edition.

Chapter	Pages	Content
Management of Patients with Neurological Dysfunction		
57	1425 - 1438	Increased Intracranial Pressure Intracranial Surgery
Management of Patients with Neurological Trauma		
57	1438 – 1445 1440	Head Injury Concussion; Contusion
61	1546 – 1559 1559 - 1560	Spinal Cord Injury Neurogenic Bladder
64	1628 – 1631 1452 – 1455 1455 1445 – 1449	Degenerative Disk Disease and Disk Herniation Bacterial Meningitis Viral Meningitis Brain Tumors

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: Lewis, et al: Medical Surgical Nursing, 8th Edition.

Chapter	Pages	Content
63	1590 – 1604	Fractures-Healing and Complications
	1594	External Fixator
	1599 – 1601	Traction
	1604 – 1614	Fractures of Specific Sites
	1614 – 1617	Orthopedic Surgery

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: Lewis, et al: Medical Surgical Nursing, 8th Edition.

Chapter	Pages	Content
31	648 – 654	Assessment of Hematologic Disorders
	654 – 659	Diagnostic Evaluation
		Hematologic Problems:
31	662 – 668	Anemias
	670 – 672	Aplastic Anemia
	672 – 675	Sickle Cell Anemia (Review)
	676 – 678	Polycythemia
	678 – 684	Thrombocytopenia
		Bleeding Disorders:
	684 – 686	Hemophilia
	687 – 689	Disseminated Intravascular Coagulation
	705 – 710	Therapies for Blood Disorders Blood Transfusions
		Lymphoma, Leukemia, and Multiple Myeloma

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: Lewis, et al: Medical Surgical Nursing, 8th Edition.

Chapter	Pages	Content
16	261 – 268	Epidemiology Pathophysiology
	268 – 271	Diagnosis: Classification of Cancer
	269	Detection and Prevention
	271 – 294	Targeted Therapies:
	272 – 273	Surgical Therapy
	273 – 277	Chemotherapy
	277 – 280	Radiation Therapy
	287 – 290	Biologic and Targeted Therapy
	290 – 291	Hematopoietic Growth Factors
	291 – 292	Stem Cell Transplantation
	292	Gene Therapy
	297	Gerontologic Considerations

Associated Problems:

280 – 282	Bone Marrow Suppression
283	Fatigue
283	GI Effects
284 - 286	Skin Reactions
286	Pulmonary Effects
295 – 296	Cancer Pain
296 – 297	Coping with Cancer/Psychosocial Effects