CENTRAL TEXAS COLLEGE  
VNSG 1432  
MEDICAL-SURGICAL NURSING II  
Semester Hours Credit: 4

INSTRUCTORS: __________________________

OFFICE HOURS: _________________________

I. INTRODUCTION

A. **Course Description:** Continuation of Medical-Surgical Nursing I with application of the nursing process to the care of the adult patient experiencing medical-surgical conditions along the health-illness continuum in a variety of health care settings.

B. This is a required course in the Vocational Degree Nursing curriculum.

C. This course is occupationally related and serves as preparation for careers in nursing (Vocational Nursing Degree).

D. **Prerequisites:**

   Fall Admissions:
   1. BIOL 2401: Anatomy and Physiology I
   2. HPRS 2300: Pharmacology
   3. VNSG 1126: Gerontology
   4. VNSG 1323: Basic Nursing Skills
   5. VNSG 1219: Leadership & Professional Development
   6. VNSG 1222: Vocational Nursing Concepts
   7. VNSG 1301: Mental Health & Mental Illness
   8. VNSG 2331: Advanced Nursing Skills
   9. VNSG 1160: Clinical Practical Nurse I
   10. VNSG 1560: Clinical Practical Nurse II
   11. VNSG 1429: Medical Surgical Nursing I

   Spring Admission:
   1. BIOL 2401: Anatomy and Physiology I
   2. HPRS 2300: Pharmacology
   3. VNSG 1126: Gerontology
   4. VNSG 1323: Basic Nursing Skills
   5. VNSG 1222: Vocational Nursing Concepts
   6. VNSG 2331: Advanced Nursing Skills
   7. VNSG 1160: Clinical Practical Nurse I
   8. VNSG 1360: Clinical Practical Nurse II
   9. VNSG 1429: Medical Surgical Nursing I
E. **Co-requisites:**

*Fall Admissions:*
- VNSG 1230: Maternal/Neonatal Nursing
- VNSG 1234: Pediatrics
- VNSG 2360: Clinical Practical Nurse III

*Spring Admissions:*
- VNSG 1301: Mental Health & Mental Illness
- VNSG 1219: Leadership & Professional Development
- VNSG 2560: Clinical Practical Nurse III

F. Policy: Dependent on Spring or Fall admission, the student will refer to the specific curriculum degree plan and follow that progression pattern.

G. Secretary’s Commission on Achieving Necessary Skills (SCANS) and Differentiated Essential Competencies (DEC’s)

Alphanumeric coding used throughout the syllabus denotes the integration of SCANS occupational competencies (C) and foundation skills (F). The DEC’s that are implemented in VNSG 1432 are coded as Member of Profession (MOP), Provider of Patient-Centered Care (PPCC), Patient Safety Advocate (PSA), and Member of the Health Care Team (MHCT). The complete delineation of Texas Board of Nursing DEC’s is found at:
- [http://www.bne.state.tx.us/about/October10/7-2.pdf](http://www.bne.state.tx.us/about/October10/7-2.pdf)
- [https://www.bon.texas.gov/.../differentiated_essential_competencies-2010.pdf](https://www.bon.texas.gov/.../differentiated_essential_competencies-2010.pdf)

II. **LEARNING OUTCOMES**

Upon successful completion of this course, VNSG 1432: Medical Surgical Nursing II, the student will:

A. Compare and contrast normal physiology of body systems to pathologic variations in the patient with common medical-surgical health problems. (PPCC 1-2) (F5, F7, F8, F9, F10, F11, F12)

B. Compare and contrast diagnostic evaluation and treatment of the patient with common medical-surgical health problems. (MOP 2, PPCC 2) (F5, F7, F8, F9, F10, F11, F12)

C. Incorporate nutrition, drug therapy, and nursing interventions in developing plans of care to meet the needs of patients from culturally, ethnically and socially diverse backgrounds that are experiencing common medical-surgical health problems. (PPCC 1-2) (F3, F4, F5, F7, F8, F9)

D. Utilize the nursing process in caring for patients with common medical-surgical health problems. (PPCC 1-2) (F5, F7, F8, F9, F10, F11, F12)

E. Utilize learned skills and knowledge for transition from student to graduate vocational nurse. (MOP 1-2, PSA 1-2) (F13, F14, F15, F16, F17)

F. Quality and Safety Education for Nurses (QSEN) project core competencies will be taught and evaluated in relation to the course objectives and content. Those core
competencies are Patient Centered Care, Teamwork and Collaboration, Best Practices, Quality Improvement, Safety and Informatics.

G. Utilize therapeutic communication techniques with patients who have common medical-surgical health problems.

H. Demonstrate behaviors that are congruent with the ANA Code of Ethics, Scope and Standards of Practice, and Social Policy Statements in all class related interactions. (C9, C11, C14, F1, F5-6, F8-9, F11, F13-17) (MOP1-2) (PPCC 1-2) (PSA 1-2) (MHCT 1-3)

III. INSTRUCTIONAL MATERIALS

A. Instructional materials:
   1. The instructional materials for this course are viewable through [www.ctcd.edu/book/](http://www.ctcd.edu/book/)
   3. Access to Evolve web page at [http://evolve.elsevier.com](http://evolve.elsevier.com)
   5. #2 Mechanical Pencils
   6. Scantrons
   7. Lab kit

B. Computer Accessibility: Accessibility to computer hardware and software that will support the completion of assignments on the internet, DVD, CD, or other electronic delivery is required. All Associate Degree and Vocational Nursing courses (RNSG, VNSG and HPRS), whether traditional, blended, or online utilize Blackboard Learning Management System tools for communication and course requirements. Other online components, such as publisher online resources, online activities, or database searches may also be required. It is expected that students enrolled in RNSG, VNSG or HPRS courses have access to a computer with minimum technical requirements, have a consistent and reliable Internet connection, possess basic computer skills, and have the ability to download and install applications or plug-ins. Online components/requirements may be completed in a CTC computer lab or on a home computer. Students are recommended to familiarize themselves with the locations and available hours of CTC computer labs in the event that home computers or Internet access are unavailable or unreliable. No extensions or alternate due dates for assignments or exams will be granted due to computer or Internet difficulties.

C. Supplementary Materials: Various electronic media systems, computer software, web sites, experiential group exercises, and simulated situations as suggested by the faculty to enhance clinical practice in nursing are used.

D. References: Current professional nursing journal article readings are used to supplement dated textbook information.

E. Library Resources: It is expected that all students will have a working knowledge of the Oveta Culp Hobby Memorial Library and off-site access to library resources.
F. Current practice guidelines set forth by Occupational Safety & Health Administration (OSHA) and the National Institute for Occupational Safety and Health (NIOSH) related to safe patient handling and ergonomics will be implemented.

G. Six areas of core competencies, as delineated by the Quality and Safety Education for Nurses (QSEN) project, will be taught and evaluated in relation to the course objectives and content for VNSG 1432. The (QSEN) project is to meet the challenge of preparing future nurses who will have the knowledge, skills and attitudes (KSAs) necessary to continuously improve the quality and safety of the healthcare systems within which they work. The six core competencies are Patient-Centered Care, Teamwork and Collaboration, Best Practices, Quality Improvement, Safety, and Informatics.

IV. COURSE REQUIREMENTS

A. Reading Assignment: In preparation for all lectures, it is expected that the student first read the lecture objectives and then the assigned required reading. Reading assignment can be found on the VNSG Course Calendar that is posted on Blackboard. It is essential the student have a working knowledge base of anatomy and physiology and growth and development.

B. Projects, Oral Reports, Case Studies, Presentations, Written Assignments

Submitting Written Assignments: All written assignments are to be completed independently unless instructed otherwise. All assigned written work must be submitted at the designated time. Late papers will receive a grade of “0” points.

Project/Oral Presentation: Course requirements include a group presentation as a portion of the course grade. Presentations must be made on the designated class day; no make-ups will be allowed.

C. UWORLD

Students are required to complete 200 UWorld NCLEX Study questions per week. The assigned questions will be due every Friday by 11:59 PM. Failure to complete the assigned member of questions in the assigned timeframe will result in an incomplete for the course.

1. **HESI Testing and Remediation:** It is mandatory for VN students at all three levels of the program to participate in the HESI program. Detailed diagnostic reports at the end of the semester (online exams) provide the student immediate results and opportunity for remediation. Failure to achieve satisfactory results on the proctored HESI exams will require the student to remediate. Failure to remediate could result in the student not being permitted to register for subsequent classes. Failure to take an exam will result in course failure.

2. **HESI Testing:** Health Educations Systems Inc. (HESI) testing must be completed by the assigned due date. Failure to successfully complete all assigned exam(s) will result in an “Incomplete” (IP) grade for the course. The student will complete the required proctored Evolve Reach Specialty
(HESI) exam for each designated VNSG course as scheduled by the faculty. The student must successfully complete the required HESI exam(s) for each semester at or above the HESI National Average Score on the scheduled date. Students who do not score at or above the HESI National Average Score will be required to complete remediation. Failure to complete remediation requirements will result in an incomplete (IP) for the course.

An Evolve Reach Specialty Exam will be scheduled in Semesters 1, 2, and 3 during these courses: VNSG 2331 (Fundamentals of Nursing), VNSG 1301 (Mental Health), VNSG 1429 (Medical/Surgical Nursing and Pharmacology), and VNSG 1432 (PN Exit).

If the composite score of the Evolve Reach Specialty Exam is less than the HESI National Average Score, a required counseling session with the course faculty will be held. Statistical data generated according to student responses will be available through the Evolve site https://evolve.elsevier.com/staticPages/s_index.html for each student for the purpose of self-directed remediation in identified areas that do not meet the HESI National Average Score.

**HESI Testing in Semester 3:** The PN Exit exam will be given during semester three in VNSG 1432. The exam will be administered and completed on the scheduled dates. Two attempts will be required for completion of the PN Exit exams. The PN Exit exams provide a conversion score, which is a weighted percentage score. The highest conversion score attained will be used as the student’s final exam grade.

All HESI PN Exit Exams (two) are mandatory for all third semester students. All students who obtain a score of 901 or greater are required to complete 2 hours of remediation PRIOR to taking the PN Exit 2 exam. Students obtaining 900 or less are required to complete 4 hours of self-remediation PRIOR to taking the PN Exit 2 exam. Any student not passing the PN Exit 1 exam with a recommended score of at least 850 must schedule a counseling session with a faculty facilitator and remediation must be documented. Counseling and remediation are mandatory. Failure to take both exit exams or complete required remediation will result in course incomplete (IP). The final grade will not be configured until meeting the above requirements.

Any student repeating a course will be required to re-take the HESI exam associated with that course even if the student passed the HESI exam the first time.

Students with documented disabilities may request accommodations for these standardized exams. The student must contact the faculty at the start of each semester to activate and adopt approved accommodations.

D. **Class Performance:**

1. The faculty reserves the right to adjust the student’s classroom grade based upon classroom performance/behavior/civility.
2. You may not audiotape a lecture without the faculty’s/presenter’s permission. No taping of copyrighted material will be allowed.

3. Beepers and cellular phones must be turned off in the classroom, lab, and clinical areas.

E. Class Participation/Quizzes: Students are expected to attend class prepared, to contribute to class discussion, and to participate in all class activities. The participation grade for theory courses will include positive contributions to class, meeting activity objectives, and demonstrating civility. Quizzes will be unannounced any missed quiz due to absence or tardiness will result in 1-point grade deduction.

F. Attendance:
   1. Attendance Policy: VNSG 1432 adheres to the departmental attendance policy published in the Department of Nursing and Allied Health Student Handbook. Also, refer to the college catalog “Attendance Policy”. Classroom absence may negatively impact the student’s performance on examinations and will negatively impact the class participation grade.
      a. Classroom: If absences occur from the classroom, it is the student’s responsibility to obtain missed material.
      b. Attendance at Examinations: Written examinations will be given on dates noted on the Course Calendar.
   2. A maximum of four absences are allowed during a 16-week semester; a maximum of 3 absences are allowed during a 10 week semesters. Every subsequent absence will result in a five-point deduction from your final course grade. It is the student’s responsibility to sign the attendance roster each class day. Students who fail to sign the attendance roster will be counted absent for that day. Tardiness is disruptive to the educational process. Students who enter the classroom after attendance has been taken are tardy. Students will be allowed two tardiness without penalty. Students who are greater than one hour late for class will be counted as absent for that class period.

G. Progression: A student must successfully complete VNSG 1432 and the identified co-requisite courses in order to progress to the next semester.

   If failure or withdrawal for any reason occurs from any of the co-requisite nursing courses, withdrawal from the corresponding clinical course (i.e.: Clinical Nursing I, II, III) is required.

   A student who fails the same VNSG course twice is ineligible to continue in the program.

H. Scholastic Honesty: The following statement is published in the Central Texas College Catalog and all VNSG 1432 students are expected to abide by this policy.

   “All students are required and expected to maintain the highest standards of scholastic honesty in the preparation of all course work and during examinations. The following are considered examples of scholastic dishonesty:
   1. Plagiarism - the taking of passages from the writing of others without giving proper credit to the sources.
2. **Collusion** - using another’s work as one’s own, or working together with another person in the preparation of work, unless such joint preparation is specifically approved in advance by the instructor.

3. **Cheating** - giving or receiving information on examinations. Students guilty of scholastic dishonesty will be administratively dropped from the course with a grade of “F” and subject to disciplinary action, which may include suspension and expulsion.” VNSG 1432 students are expected to abide by this policy.

I. **Values and Ethics in Nursing:**

   Students are expected to demonstrate commitment to the following values and ethical principles believed to be inherent to the nursing profession:

   1. **Altruism** - Concern for the welfare of others seen through caring, commitment, and compassion.
   2. **Human Dignity** - Belief in the inherent worth and uniqueness of the individual seen through respect, empathy, humanness, and trust.
   3. **Truth** - Faithfulness to fact seen through honesty, accountability, and authenticity.
   4. **Justice** - Upholding moral and legal principles seen through courage, advocacy, and objectivity.
   5. **Freedom** - Capacity to exercise choice seen through openness, self-direction, and self-discipline.
   6. **Equality** - Having the same rights and privileges seen through acceptance, tolerance, and fairness.
   7. **Esthetics** - Identifying the qualities of objects, events, and persons that provide satisfaction as seen through creativity, sensitivity, and appreciation.

All Vocational Nursing students are expected to abide by this policy. Falsification of attendance records is considered a violation of academic integrity. Obtaining or utilizing “Test Bank Materials” from any current or obsolete textbook, is considered scholastic dishonesty.

J. **Office Hours:** Each faculty member keeps office hours for the purpose of conferring with students. Students are encouraged to make appointments with the faculty to discuss their needs and/or problems related to VNSG 1432. Please use the phone at the reception desk to call the faculty member’s office before your appointment.

V. **EXAMINATIONS**

1. Exams can consist but not exclusive of:
   a. Multiple choice questions.
   b. Alternate format questions.
   c. Dosage calculations must reveal the methodology utilized to acquire the answer.
   d. Essay

2. The student will be allowed (as close to) 1.5 minutes per test item as is possible, given the class schedule time. The posted CTC schedule allows two hours for a final exam.
3. Testing Policy: Answers to all questions must be entered on the scantron by the student. Dosage calculation answers will be written on the back of the scantron by the student to receive credit. Once the student has submitted the scantron for grading no changes/additions can be made to the form with the exception of the instructor marking it after grading of calculation problems and alternate format questions. Students will not have further access to the scantron once it has been submitted. The ParScore™ scantron form is the only acceptable form for exam grading. Students must check it carefully before submitting it. Personal belongings, such as back packs, and purses, cellular phones, laptops will be secured in your personal vehicle during the exam. Once your exam and Scantron is turned in you then may retrieve your belongings and supplies needed for class.

4. An exam review will be provided after each exam. The date, time and place will be announced prior to the exam. Attendance is voluntary. Students will be provided a PAR Score Student Test Sheet during the in class review; you must write the question number and your rationale for your choice on the PAR Score student test report. There will be no verbal discussion of test questions during test review. Any pertinent questions regarding exam content must be made during an appointment that you can make with your instructor(s). The course faculty will review these comments and their decision will be final.

Written examinations will be given on dates noted on the course calendar. If a student cannot attend an examination, the course faculty must be notified before the examination is given. It is your responsibility and a requirement to notify the faculty in advance of any absence to retain the privilege of sitting for a make-up exam without grade penalty. Make-up examinations may include a variety of formats to include essay. Students requiring a make-up exam will report to DONAH or Student Testing Center at a designated time instructed by the faculty on the Friday following the missed exam. If the rescheduled opportunity is missed there will be no other opportunities afforded. VNSG 1432 follows the testing policy published in the Department of Nursing and Allied Health Student Handbook.

5. A student scoring 70% or less on any exam must make an appointment with the course faculty for exam review and counseling. (Appointments are optional for scores >70%). According to Department policy, individual appointments with the course faculty must be made by the student within one week of the test date for individual review of the exam. It is the student’s responsibility to make an appointment with the faculty if he/she did not achieve a minimum of 70% on an exam. The exam may be reviewed with the faculty at a later date but the appointment must be made within the one-week time frame. No exceptions! Once a subsequent exam has been administered, no prior exam may be reviewed.

6. The “Course & Testing Policy” fully explains the grading policy, exam dates and times, time limitations, review, challenge policy, and counseling. Please refer to the Department of Nursing and Allied Health Student Handbook.
VI. SEMESTER GRADE COMPUTATIONS

A. The course grade is determined by written examinations, assignments, a group project and participation. The participation points earned will be added at the end of the semester after completion of all exams and only if the student has a cumulative exam average of at least 70% (224 raw points). Students who do not have a cumulative exam average of at least 70% (224 raw points) after all exams will fail VNSG 1432.

Students are required to have a cumulative exam score of 70% (224 raw points out of 320) AND a total of at least 280 out of 400 points in the course in order to be successful. It is possible that a student could achieve a cumulative exam score of 70% (224 raw points) and still be unsuccessful if the student does not earn enough participation points to bring total points up to 280. Students who do not have a total of at least 280 points at the end of the semester will fail VNSG 1432.

B. The requirements for determining course grades are:

1. **Exam Points**
   - Exams-4- worth 60 points each: 240 points
   - HESI Exit/Final: 80 points

2. **Assignments**
   - Evolve HESI Pharmacology Assignment Exam: 20 points
   - Evolve HESI Comprehensive Practice Exam #3: 20 points

3. **Participation Points**
   - Group Presentation: 20 points
   - Quizzes: 10 points
   - Class Participation: 10 points

   **Total points possible:** 400 points

C. Grading Scale as follows:
   a. 360-400 points (A=90-100%)
   b. 320-359 points (B=80-89%)
   c. 280-319 points (C=70-79%)
   d. 240-279 points (D=60-69%)
   e. 0 – 239 points (F=0-59%)

1. **Evolve HESI Pharmacology Assignment Exam:** (20 points) This exam is located on the Evolve Site under HESI PN Case Studies with Practice Test. (Please note: no credit will be given unless submissions are made prior to the Due date and a score of 70% is achieved out of two attempts).

2. **Evolve HESI Comprehensive Practice Exam:** (20 points) This exam is located on the Evolve website under HESI PN Case Studies with Practice Test. If a score of 70 % or higher is not achieved the student may attempt the practice exam a second time to achieve full credit.

3. **Group Presentation:** (20 points): Criteria for the presentation is posted on Blackboard. The presentation will last a minimum of 15 minutes and maximum of 20 minutes in length. During oral presentation it must be evident that all members have collaborated proportionately. A Peer Evaluation Form must be
submitted through the Group Presentation Submission Link located on Blackboard. A separate grade will be submitted to the student(s) found not to have participated effectively. If the student is not present for the presentation a 2-point deduction (10%) will be incorporated into the individual student’s project grade.

A power point presentation is mandatory (criteria is posted under Group Presentation Requirements on Blackboard). In addition, for the oral presentation you may utilize any of the following formats: handouts, skits, video, etc. Be creative with your information and allow time for questions at the end of the presentation.

The power point presentation must be submitted via Blackboard (Group Presentation Submission Link) the Sunday prior to the oral presentation date assigned. A minimum of 5 references (2 textbooks, 2 journal articles, and web document) should be included on your references slide.

D. The faculty reserves the right to adjust the student’s classroom grade based upon classroom performance/behavior/civility.

VII. NOTES AND ADDITIONAL INSTRUCTIONS FROM THE INSTRUCTOR

A. Course Withdrawal: (Consistent with CTC policy)

B. Administrative Initiated Withdrawals: (Consistent with CTC policy)

C. Incomplete Grade: (Consistent with CTC policy).

D. Cellular Phones and Beepers: Cellular phones and beepers will be silenced or placed on vibrate during regular class and laboratory periods. Cell phones will not be allowed on desks during examinations. Personal belongings, such as back packs, and purses, cellular phones, laptops will be secured in your personal vehicle during the exam. Once your exam and Scantron is turned in you then may retrieve your belongings and supplies needed for class. Repeated warnings about cell phone disruptions may lead to negative student academic consequences (i.e. point deductions from final grade). This will be left at the faculty’s discretion.

E. Disability Support Services Program: Disability Support Services (DSS) provides support services for students who have appropriate documentation of a disability. Students requiring classroom, academic or other accommodations are responsible for contacting DSS located on the central campus, Building 111, Room 207, (254) 526-1291. This service is available to all students, regardless of location. Reasonable accommodations will be given in accordance with the federal and state laws through DSS office, and in accordance with American with Disabilities Act (ADA) and Section 504 Rehabilitation Act. Additional information is available from the DSS website.

F. Instructor Discretion: The instructor reserves the right of final decision in course requirements.

G. Civility: See the Civility Policy. Individuals are expected to be cognizant of what a constructive educational experience is and respectful of those participating in a
learning environment. Failure to do so can result in disciplinary action up to and including expulsion and is at the faculty’s discretion.

H. Non-Discrimination: Central Texas College District is an equal opportunity, affirmative action institution. We are unequivocally committed to a policy of equal access and equal opportunity in employment practices, admissions, educational programs, and all other college activities. The college does not discriminate on the basis of race, color, religion, national origin, gender, age, disability, veteran status, genetic information, sexual orientation, gender identity or transgender status. Accordingly, it is the policy of the college to maintain an academic and work environment free of discrimination and harassment in accordance with all applicable federal, state and local statutes and regulations.

I. Inclement Weather: Information about class cancellation or delay because of inclement weather can be obtained by listening to KNCT-FM (91.3 FM) or by calling (254) 501-3100. (CTC Inclement Weather Information Line).

J. Progression: A student must successfully complete VNSG 1301: Mental Health & Mental Illness. VNSG 1360/1560: Clinical Practical Nurse II in order to progress to the next semester. If withdrawal occurs for any reason from any of the corequisite courses, VNSG 1301, withdrawal from the corresponding clinical course, VNSG 1360/1560 Clinical Practical Nurse II is required.

VIII. COURSE OUTLINE

A. Unit One – Hematologic, Immunologic Disorders, HIV/AIDS, Cancer

1. Learning Outcomes:
   a. Describe the most common sites of cancer in men and women.
   b. Describe the difference between benign and malignant tumors.
   c. Explain terms used to name and classify cancer.
   d. Explain diagnostic tests to detect possible cancer.
   e. Describe nursing care of cancer patients undergoing surgery, radiation, chemotherapy, and biotherapy.
   f. Identify anatomy and physiology of the hematologic system.
   g. Identify data to be collected from a patient with a hematologic disorder.
   h. Describe diagnostic tests used to diagnose hematologic disorders, and nursing considerations for each.
   i. Describe pathophysiology, signs and symptoms, medical treatment, nursing interventions for disorders of the hematologic system.
   j. Describe the components on the immunologic system and describe the role in innate, and acquired immunity.
   k. List data to collect when assessing a patient with an immunologic disorder.
   l. Describe diagnostic tests and procedures to diagnose various immunologic disorders.
   m. Describe pathophysiology, signs and symptoms, nursing interventions, medical treatment for immunologic disorders.
   n. Explain the pathophysiology of HIV.
   o. List the risks associated with HIV.
   p. Identify complications of HIV.
q. Identify criteria for the diagnosis of AIDS.
 r. List the major HIV drugs, indications, side effects and nursing implications.
 s. Describe nursing care and patient teaching for a patient with HIV and AIDS.

2. Learning Activities: Group discussion, project, and independent and group collaboration.

3. Equipment and Materials: Lecture Outline/PPT and/or instructional hand-outs in Blackboard Learning Management System

4. Audio-visual Aids: DVD/VHS, CD, Computer Aided instruction (CAI) as appropriate

5. Lesson Outline:
   Linton Chapter 25: The patient with cancer
   Linton Chapter 33: Hematology Disorders
   Linton Chapter 34: Immunologic Disorders
   Linton Chapter 35: HIV/AIDS

B. Unit Two – Pituitary, Adrenal, Thyroid, Metabolic and Reproductive Disorders

1. Learning Outcomes:
   a. Identify data to be collected from an assessment of a patient with adrenal and pituitary function.
   b. Describe diagnostic tests and procedures used to diagnose adrenal and pituitary disorders.
   c. Describe the pathophysiology, medical treatment, nursing implications, signs and symptoms of adrenocortical insufficiency, excess adrenocortical hormones, hypopituitarism, diabetes insipidus, and pituitary tumors.
   d. Identify the nursing assessment data related to thyroid and parathyroid glands.
   e. Describe the diagnostic tests and procedures used to diagnose disorders of the thyroid and parathyroid glands.
   f. Describe the pathophysiology, signs and symptoms, nursing interventions, medical treatment, complications and treatment of hyperthyroidism, hypothyroidism, hyperparathyroidism, and hypoparathyroidism.
   g. Explain the pathophysiology of Diabetes Mellitus and hypoglycemia.
   h. Explain the difference between Type 1 and Type 2 Diabetes Mellitus.
   i. Describe the role of insulin in the body.
   j. Describe the signs and symptoms of hypoglycemia and diabetic ketoacidosis.
   k. Describe the complications associated with Diabetes Mellitus.
   l. Describe the treatment of acute hypoglycemia, and diabetic ketoacidosis and diabetes mellitus type 1 &2.
   m. Identify nursing interventions for a patient who has diabetes or hypoglycemia.
   n. Explain diagnostic tests and procedures used to diagnose diabetes mellitus and hypoglycemia.
   o. List data to be collected during the assessment of the female reproductive system.
p. Describe nursing interventions for women undergoing diagnostic tests and procedures related to the female reproductive system.
q. Identify nursing interventions associated with douche, cauterization, heat therapy, topical medications used to treat female reproductive disorders.
r. Explain the pathophysiology, signs and symptoms, medical treatment, nursing implications, diagnostic procedures, surgical treatment for female reproductive disorders.
s. Describe nursing interventions for women who are menopausal.
t. Describe the structures and functions of the male reproductive system.
u. Identify data to be collected during the assessment of the male reproductive system.
v. Explain common diagnostic tests, procedures and nursing implications when assessing the male reproductive system.
w. Explain the pathophysiology, signs and symptoms, medical treatment, nursing implications, diagnostic procedures, surgical treatment for male reproductive disorders.
x. Identify common therapeutic measures used to treat disorders of the male reproductive system and nursing implications of each.
y. Describe diagnostic tests used to diagnose STI’s and nursing considerations for each.
z. Explain what STI’s must be reported to the health department.
aa. Explain the pathophysiology, signs and symptoms, medical treatment, nursing implications, diagnostic procedures, surgical treatment for STI’s.
bb. Explain the nurse’s role and approach with patients who have STI’s.
cc. List common nursing considerations when a patient is on drug therapy for STI’s.
dd. Identify data to be collected during the assessment of a patient with a STI.
e. Describe a teaching plan for prevention of STI’s.

2. **Learning Activities**: Group discussion, project, and independent and group collaboration.
3. **Equipment and Materials**: Lecture Outline/PPT and/or instructional hand-outs in Blackboard Learning Management System
4. **Audio-visual Aids**: DVD/VHS, CD, Computer Aided instruction (CAI) as appropriate
5. **Lesson Outline**:
   - Chapter 46: Pituitary/adrenal disorders
   - Chapter 47: Thyroid/parathyroid disorders
   - Chapter 48: Diabetes Mellitus
   - Chapter 49: Female Reproductive Disorders
   - Chapter 50: Male Reproductive Disorders
   - Chapter 51: STI

C. **Unit Three – Neurologic, Cerebral Vascular Accident Eye and Ear Disorders**
   1. **Learning Outcomes**:
      a. Identify common neurological changes in the older person and nursing implications.
      b. Describe the nursing assessment of the patient with a neurologic disorder.
c. Describe the diagnostic tests and procedures used to evaluate neurologic functioning and nursing implications associated with each.
d. Identify uses, side effects, nursing interventions associated with common drug therapies for patients with neurologic disorders.
e. Describe the signs and symptoms associated with increased intracranial pressure and treatment.
f. Describe the pathophysiology, signs and symptoms, complications, medical and surgical treatment with neurologic disorders.
g. Discuss the risk factors of a cerebrovascular accident (CVA).
h. Identify the two major types of CVA.
i. Describe the pathophysiology, signs and symptoms, and medical treatment for each type of CVA.
j. Describe the neurologic deficits/changes that might result from a CVA.
k. Explain the tests and diagnostic procedures used to diagnose CVA and the nursing responsibilities for each procedure or diagnostic test.
l. Discuss criteria for treatment with recombinant tissue plasminogen activator.
m. List assessment data to be collected in the nursing assessment of a CVA patient.
n. Identify resources for the CVA patient and family.
o. Identify the data to be collected during a nursing assessment of the eye.
p. Identify the nursing responsibilities for patients having diagnostic tests and procedures related to the eye.
q. Describe common therapeutic measures and nursing care related to the eye for irrigation, application of ophthalmic drugs, and surgery.
r. List measures that reduce injury to the eye.
s. Describe the pathophysiology, signs and symptoms, complications, medical or surgical treatment of conditions of the eye.
t. Identify the data to be collected during a nursing assessment of the ear.

Learning Activities:

2. Group discussion, project, and independent and group collaboration.

3. Equipment and Materials:
   a. Lecture Outline/PPT and/or instructional hand-outs in Blackboard Learning Management System
   b. DVD/VHS, CD, Computer Aided instruction (CAI) as appropriate

4. Audio-visual Aids:
   a. Linton Chapter 27: Neurologic Disorders
   b. Linton Chapter 28: Cerebrovascular Accident
   c. Linton Chapter 53: Eye and Vision Disorders
   d. Linton Chapter 54: Ear and Hearing Disorders
D. **Unit Four – Shock, Spinal Cord Injury, Urologic, Liver, GB, and Pancreatic Disorders**

1. **Learning Outcomes:**
   a. Identify the four types of shock.
   b. Describe the pathophysiologic changes of each type of shock.
   c. List the signs and symptoms of each stage of shock.
   d. Explain the first aid and emergency treatment of shock outside a medical facility.
   e. Identify general medical and nursing interventions for shock.
   f. Explain the rational for the medical surgical treatment of shock.
   g. Assist in developing care plan for a shock patient.
   h. Explain the effects of Spinal cord injury (SCI).
   i. Describe diagnostic tests used to evaluate SCI and nursing interventions involved with the diagnostic tests.
   j. Describe the medical surgical treatment during the acute phase of SCI.
   k. List the data included in the nursing assessment of a patient with SCI.
   l. Identify nursing interventions, goals, and outcomes for a patient with SCI.
   m. Explain the goals of rehabilitation for a patient with SCI.
   n. Describe the pre and post op nursing care for a patient undergoing a laminectomy.
   o. Identify nursing assessment data related to the functions of the liver, gallbladder, and pancreas.
   p. Explain the nurse’s role in diagnostic tests and procedures performed to diagnose liver, gallbladder and pancreas disorders.
   q. Explain the pathology, signs and symptoms, complications, diagnosis, and medical treatment of disorders of the liver, gallbladder and pancreas.
   r. Describe the care of a patient who has a esophageal balloon.
   s. Assist in developing a care plan for a patient with liver, gallbladder or pancreatic problem.
   t. List the data to be collected during a nursing assessment of a patient with a urologic disorder.
   u. Describe diagnostic tests and procedures, and nursing implications for patients who have urologic disorders.
   v. Explain the nursing responsibilities related to common therapeutic measures used to treat urologic disorders.
   w. Explain the pathology, signs and symptoms, complications, diagnosis, and medical treatment used to treat urologic disorders.
   x. Assist in the development of a care plan for patients with urologic disorders.

2. **Learning Activities:** Group discussion, project, and independent and group collaboration.

3. **Equipment and Materials:** Lecture Outline/PPT and/or instructional hand-outs in Blackboard Learning Management System

4. **Audio-visual Aids:** DVD/VHS, CD, Computer Aided instruction (CAI) as appropriate
5. Lesson Outline:
   a. Linton Chapter 19: Shock
   b. Linton Chapter 29: Spinal Cord Injury
   c. Linton Chapter 41: Liver/Gallbladder/Pancreatic Disorders
   d. Linton Chapter 42: Urologic Disorders

COMPREHENSIVE FINAL EXAM

IX. COURSE TEACHING LEARNING ACTIVITIES

A. Course Calendar: The Course Calendar for VNSG 1432 details required reading for each of the units of study. In addition, exam, project, and assignment due dates are also listed on the Course Calendar. The student is to use the syllabus in conjunction with the daily plan to prepare for class. (C 1, 3)

B. Supplemental Learning Activities: Students are highly advised to utilize the supplemental learning aids that accompany the required text in preparation for each lesson. Each assigned chapter in the required text has corresponding Chapter Review questions that should be completed. Student resources are available, these resources include NCLEX exam Review Question with rationales, interactive, animations, video clips, audio clips, and chapter summaries. The study guide that accompanies the required text is also available and it is recommended that students utilize it as an additional learning aid for this course. All of these resources are excellent learning aids and are highly recommended by the instructors of this course.

C. Auto-Tutorial: For some units of study, audio-visual materials and computer-assisted instruction are assigned. Videos will be viewed in class. Computer-assisted programs may be viewed in the learning laboratory. The student will be tested over material from videos or required computer-assisted programs. (C 8, 18)

D. Self-Directed Study: Each student enters the program with varied backgrounds, educational preparations and rate of learning; therefore, to enhance the teaching-learning process, the student is expected to develop an attitude of self-direction in acquiring knowledge. As part of the self-directed study the student is encouraged to complete Learning Outcomes at the beginning of each assigned chapter. This course is fast paced, with new material covered at each class meeting. Class time is designed to supplement and clarify assigned learning activities. Please set up an appointment time with the appropriate professor, if further assistance is needed. (F 11, 13, 16)

E. Class Presentation: A variety of teaching methods (lecture, discussion, demonstration, guest lectures, small group activities, computer-assisted instruction, audio visuals) will be utilized to present material on assigned units of study. Class presentations are intended to supplement assigned learning aids. It is the student’s responsibility to be familiar with assigned material before attending class. (F 13)

F. Drug Information: The student will be required to identify the classification, generic name, trade name, physiological action, uses, therapeutic range (if applicable), route of administration, principle side effects, contraindications, incompatibilities, patient teaching, nursing responsibilities, and evaluation of effectiveness of these drugs after being discussed in class. Also, the student must demonstrate basic mathematical skills necessary for practical problem solving for drug administration. (F 3, 4)
CENTRAL TEXAS COLLEGE
Associate Degree/Vocational Nursing Program
Dosage Calculation for Administration (DCFA) Rounding Rules

These rules are standard rules of rounding that apply across the curriculum unless otherwise specified on an exam. All answers must be correctly labeled or they are wrong.

1. Never round off until the final answer.
2. When rounding, the general rule is: 5 and above round up; 4 and below round down. However, never round up when figuring problems for pediatrics/infants.
3. Amounts less than 1 should be preceded by a 0 and a decimal point.
4. No “trailing” zeros. Ex: 5 mL, not 5.0 mL; 0.4 mL, not 0.40 mL.
5. To convert pounds and ounces to pounds, divide the ounces by 16. For example: weight = 7 lb, 10 oz; 10/16 = 0.625; so weight is 7.625 lb.
6. Conversions you must know:
   1 pound (lb) = 16 ounces (oz)     1 kilogram (kg) = 2.2 pounds (lb)
   1 kilogram (kg) = 1000 grams (g)   1 gram (g) = 1,000,000 micrograms (mcg)
   1 gram (g) = 1000 milligrams (mg)  1 milligram (mg) = 1000 micrograms (mcg)
   1 unit (U) = 1000 milliunits (mU)  1 liter (L) = 1000 milliliters (mL)
   1 ounce (oz) = 30 milliliters (mL)  1 teaspoon (tsp) = 5 milliliters (mL)
   1 tablespoon (Tbsp) = 15 milliliters (mL) 1 oz of breast milk = 20 kilocalories (kcal)
   1 oz of baby formula = 20 kcal unless otherwise specified in problem
My signature below confirms; I fully understand the information in the VNSG 1432 syllabus. My signature acknowledges receipt of, and understanding of, the VNSG 1432 Course & Testing policy and receipt of the VNSG 1432 Syllabus (posted on Blackboard).

Printed Name

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Signature                                      Date