

**CENTRAL TEXAS COLLEGE**  
**VNSG 1432**  
**MEDICAL-SURGICAL NURSING II**

**Semester Hours Credit: 4**

**INSTRUCTOR(S):** \_\_\_\_\_

**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. **End of course Outcomes:** Compare and contrast normal physiology of body systems to pathologic variations in the patient with common medical-surgical health problems. Utilize the nursing process in caring for patients with common medical-surgical health problems. Utilize learned skills and knowledge for transition from student to graduate vocational nurse.
- 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:**  
*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 1560: Clinical Practical Nurse I  
8. VNSG 1429: Medical Surgical Nursing I
- E. **Co-requisites:**  
*Spring Admissions:*  
VNSG 1230: Maternal/Neonatal Nursing  
VNSG 1234: Pediatrics  
VNSG 2560: Clinical Practical Nurse II  
VNSG 1301: Mental Health & Mental Illness  
VNSG 1219: Leadership & Professional Development
- 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>  
[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/books](http://www.ctcd.edu/books)
  2. Access to Blackboard web page at <https://ctc.blackboard.com/>
  3. Access to Evolve web page at <http://evolve.elsevier.com>
  4. Non-scientific calculator.
  5. #2 Mechanical Pencils (for written exams)
  6. Blank Scantron test form
  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. Supplemental Readings:
1. <http://www.aap.org>
  2. <http://bon.state.tx.us>
  3. <http://www.cdc.org>
  4. <http://www.dibates.org>
  5. <http://www.nih.gov>
  6. <http://www.nursingworld.org>
  7. <http://www.who.int/en>
- E. References: Current professional nursing journal article readings are used to supplement dated textbook information.
- F. 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.
- G. 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.

- H. 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. Oral Reports, Case Studies, 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.

- 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 number of questions in the assigned timeframe will result in an incomplete for the course.

- D. Class Participation: Attendance Policy per this course adheres to the departmental attendance policy published in the Department of Nursing and Allied Health Student Handbook. Also, refer to the college catalog “Class Attendance and Course Progress”. Classroom absence may negatively impact the student’s performance on examinations and will negatively impact the class participation grade. If absences occur, it is each student's responsibility to obtain classroom materials and missed information from peers. **You may not audiotape/videotape a lecture without the faculty's permission. Copyrighted materials may not be audio taped/videotaped.**

- E. 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.

- F. Class Performance: Cell phones, tablets and laptops may be used in the classroom with the permission of the professor for the purpose of notetaking, reference, and research. Students are expected to attend class prepared to contribute to class discussion and to participate in class activities. The faculty reserve the right to adjust the student's classroom grade based upon classroom performance, behavior and civility.
- G. Following an illness or other medical or mental health-related event, during the duration of the program, the student may be required to obtain "Student Medical Release Return to Class/Clinical" from their health care provider prior to returning to the classroom/clinical agency. The required release must include 1) when the student can return to school/clinical and 2) specific limitations on activity level, if any. The form must be faxed or mailed from the health care provider's office or submitted in a sealed envelope. Please see the Department of Nursing and Allied Health office or Student Handbook for required paperwork.

In accordance to Title IX and CTC Disability Support Services the following is required for pregnancy:

Please note that pregnancy alone is not considered a disability under ADA federal law. However, pregnancy related absences that are deemed medically necessary by a medical provider and/or leave from school due to childbirth/recovery are covered under Title IX. For assistance regarding Title IX Pregnancy, students can contact the Disability Office at 254-526-1195. It is the responsibility of the student to contact the disability office and submit the required medical documentation.

In accordance with Title IX federal pregnancy laws, students are **REQUIRED** to submit medical documentation to the disability office in regard to their pregnancy-related absences and/or childbirth/delivery. Students may also submit medical documentation to their course instructor(s) in addition to the DSS office. The DSS office will not contact the students course instructor(s) to notify them of the student's permitted absences until DSS has received the required medical documentation from the student.

Medical documentation must be on an official letterhead with the signature and credentials of the medical provider.

Medical documentation must clearly state dates of pregnancy related absence(s) and dates deemed medically necessary for recovery after childbirth/delivery per the student's medical provider.

Medical documentation must also state when the student may return back to school after pregnancy and/or childbirth leave per the student's medical provider.

Medical documentation must be provided to the disability office as soon as possible and prior to the end of the semester/term.

Medical documentation may be dropped off to our office (Building 111, Room 207), emailed to [christy.shank@ctcd.edu](mailto:christy.shank@ctcd.edu) or faxed to the Director of the Disability Support Services (DSS) office at 254-526-1700.

For more information on Title IX pregnancy laws, please visit the following link: <https://www2.ed.gov/about/offices/list/ocr/docs/dcl-know-rights-201306-title-ix.html>

A student scoring less than a 75% on any exam must make an appointment with the course faculty for exam review and counseling within one week after completing the exam.

- H. **Project/Oral Presentations:** Course requirements may include a class presentation and/or independent web-based projects. Assignments must be completed by the designated class day/time. **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 zero.
- I. **Office Hours:** Each faculty member/instructor keeps office hours for the purpose of conferring with students. Students are encouraged to make appointments with a faculty member/instructor to discuss their needs and/or problems related to this course. Please use the phone at the reception desk to call the faculty member's/instructor's office before your appointment.
- J. **Progression:** A student must **successfully complete** all semester II courses; 1432 Medical Surgical II & 2560 Clinical Practical Nurse II to progress to graduation from the nursing program. In addition, the student must meet the graduation requirements as identified in the college catalog. **Failure of any two VNSG courses will result in ineligibility for readmission.**
- K. **Attendance:**
  - 1. **Attendance Policy:** VNSG 1432 adheres to the departmental attendance policy published in the Department of Health Services 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 2 absences are allowed during 16-week semesters; a maximum of 3 absences are allowed during 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 are counted as absent for that day.

3. Tardiness is disruptive to the educational process. Students who enter the classroom after attendance has been taken are tardy. Students will be allowed two tardies without penalty. Each subsequent tardy will result in a two-point deduction from your final course grade. Students who are greater than one hour late for class will be counted as absent for that class period

L. **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.

V. **EXAMINATIONS**

- A. Attendance at Examinations: Written examinations will be given on dates noted on the daily plan. If a student cannot attend an examination, the course coordinator/professor must be notified via Blackboard E-mail **before the examination is given**. It is your responsibility and a requirement to notify the professor in advance of any absence in order 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 and/or alternate format questions. Students requiring a make-up exam will make arrangements with the Lead Faculty member and report to the Department of Nursing on the designated date and time following the missed exam. If the rescheduled opportunity is missed there will be no other opportunities afforded.

**All electronic devices, to include cell phones and smart watches, must be turned off and put away (in a backpack or purse, etc. and placed at the front**

**of the room) during exams. They cannot be on the desk or accessible while taking an exam or during an exam review.**

- B. Examinations will consist of multiple choice, alternate format style questions or essay, i.e.: select all that apply true/false, matching, short answer and fill in the blank. The exams will be scheduled on the computer in the computer lab **or** pencil paper format. Once the student has submitted the exam for grading no changes/additions can be made, 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 exam once it has been submitted. Exam rationales will be available immediately after the exam on the computer to enhance individual feedback, knowledge and understanding. Be prepared for computer lab or pencil and paper style testing. An item analysis will be performed by the professors after each examination to evaluate question validity.

If the exam is given in pencil & paper format; an exam review of answers will be provided after the exam is completed. Any pertinent questions regarding exam content can be discussed at your appointment during your one-on-one exam review.

In either case, final exam grades will be posted in the Blackboard Learning System after item analysis is complete.

- C. Refer to the Nursing Student Handbook for more on the Testing Policy

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, and 2 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](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 2:** 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 second 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.

## VI. SEMESTER GRADE COMPUTATIONS

- A. The course grade is determined by written examinations, assignments, quizzes 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 75% (210 raw points). Students who do not have a cumulative exam average of at least 75% (210 raw points) after all exams will fail VNSG 1432.

Students are required to have a cumulative exam score of 75% (210 raw points out of 280) **AND** a total of at least 300 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 75% (210 raw points) and still be unsuccessful if the student does not earn enough participation points to bring total points up to 300. Students who do not have a total of at least 300 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 Proctored #2/Final: 60 points
2. **Assignments**  
*Group Project* 21 points  
Pre-Class Assignment Lessons: 17 points  
Shadow health assignments: 2@ 5 points each 10 points  
HESI Proctored Exam #1: 10 points  
NGN Case Study Style exam questions 1 point each 17 points  
These are in class assignments only.
3. **Participation Points**  
Labs: 4 total at 2 points each 8 points  
Adaptive Quizzes 75% or above: 17 points  
**Total points possible: 400 points**

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%)

C. The requirements for allocation of assignment and participation points:

1. **HESI Proctored Exam #1: (10 points) (Please note:** no credit will be given unless the submission is made prior to the Due date and a minimum score of 75% is achieved on the initial attempt. Students scoring 75% and above will receive full 10 points. Students scoring below a 75% will receive points based on the scale below :

69% - 60% = 6 points

59% or below = 3 points

**HESI Proctored Exam #2:** Upon completion of the second HESI the instructor will take the highest score of the two HESI's and grant any student the full 60 points for a HESI score of 901 or above. A score of 850-900 will receive 50 points. A score of 800-849 will receive 40 points.

A score of 750-799 will receive 30 points. A score of 700-749 will receive 20 points. A score of 650-699 will receive 10 points. A score of 649 and below will receive 5 points.

2. **Assignments:** Students will be given a "Pre-Class assignment lessons", "NGN Case study style exam questions, and "Adaptive quizzing" assignment. Students who complete the "Pre-Class assignment lessons" will be eligible to take "Quizzes". Students who qualify to take the quiz and score 75% or better may earn up to 51 points total from all 3 categories.

Students scoring below a 75% on a “Adaptive Quiz” will not receive any credit for points: Students have to be present at the time the NGN Case study style exam quiz is administered to get the points.

3. Labs: There are four total, you must be present, and actively participate to receive the points.
- 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: Cellular phones 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 is completed 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 accommodations are responsible for contacting the Office of Disability Support services located on the central campus. This service is available to all students, regardless of location. Explore the website at [www.ctcd.edu/disability-support](http://www.ctcd.edu/disability-support) for further information. Reasonable accommodations will be given in accordance with the federal and state laws through DSS office.
- 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. Support Services: The College offers a variety of support services to students. Refer to the CTC website: <http://www.ctcd.edu/students/current-ctc-students/academic-support/> and <http://www.ctcd.edu/academics/catalogs/catalog-texas/student-services/>

## VIII. COURSE OUTLINE

### A. Unit One – Hematologic, Immunologic Disorders, 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.
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 7: The patient with cancer
  - Linton Chapter 29: Hematologic System Introduction
  - Linton Chapter 30: Hematology Disorders
  - Linton Chapter 31: Immunologic System Introduction
  - Linton Chapter 32: Immunologic Disorders

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.
- ee. 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 48: Pituitary/adrenal disorders
  - Chapter 49: Thyroid/parathyroid disorders
  - Chapter 50: Diabetes Mellitus
  - Chapter 52: Female Reproductive Disorders
  - Chapter 54: Male Reproductive Disorders
  - Chapter 55: STI

C. **Unit Three – Neurologic, Cerebral Vascular, 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.
  - u. Describe tests and procedures used to diagnose disorders of the ear, hearing and balance, and include nursing implications.
  - v. Describe the pathophysiology, signs and symptoms, complications, medical or surgical treatment of conditions of the ear.
  - w. Identify measures to reduce the risk of a hearing impairment and to detect problems early.
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 22: Neurologic Disorders
    - b. Linton Chapter 23: Cerebrovascular Accident
    - c. Linton Chapter 59: Eye and Vision Disorders
    - d. Linton Chapter 60: 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 rationale 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 9: Shock
    - b. Linton Chapter 24: Spinal Cord Injury
    - c. Linton Chapter 40: Liver/Gallbladder/Pancreatic Disorders
    - d. Linton Chapter 42: Urologic Disorders

## 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, 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. **(C1, 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. **(C8, 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. **(F11, 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. **(F13)**
- 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. **(F3, 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	

**CENTRAL TEXAS COLLEGE  
VNSG 1432: MEDICAL SURGICAL NURING II  
SYLLABUS SIGNATURE SHEET**

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).

Students requiring a make-up exam will make arrangements with the Lead Faculty member and report to the Department of Nursing on the designated date and time following the missed exam. If the rescheduled opportunity is missed there will be no other opportunities afforded

---

Printed Name

---

Signature

Date