

**COURSE SYLLABUS**

**VNSG 1171.501**

**IV THERAPY**

**Vocational Nursing Program- Plainview Extension**

**Health Occupations Division**

**Technical Education Division**

**Plainview Campus**

**SOUTH PLAINS COLLEGE**

**Spring 2022**

**SOUTH PLAINS COLLEGE – PLAINVIEW  
 SPRING 2022  
 COURSE SYLLABUS**

**COURSE TITLE:** VNSG 1171.501 (1:1:0)

**INSTRUCTOR:** Tina Lopez-Wilsey  
 Instructor in Vocational Nursing

**OFFICE LOCATION** SPC - Plainview Center PC104E  
**& PHONE / E-MAIL:** 806-716-4408/ [tlopez-wilsey@southplainscollege.edu](mailto:tlopez-wilsey@southplainscollege.edu)

**OFFICE HOURS:** M-T 0800 - 1200  
 W-TR-F By Appointment

***SOUTH PLAINS COLLEGE IMPROVES EACH STUDENT'S LIFE***

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**COURSE DESCRIPTION:**

This course discusses intravenous therapy, including types of intravenous devices and various types of therapy, complications of intravenous therapy and venipuncture techniques.

**COURSE LEARNING OUTCOMES:**

Determined by local occupational need and business and industry trends. Specific goals/objectives of this course are to help the student understand and utilize measures necessary to promote safety and comfort of the client receiving intravenous therapy.

**COURSE COMPETENCIES:**

The student must complete this course with a grade of 77% or above based on the following objectives:

1. Identify and locate veins used as primary sites for IV infusions.
2. State three indications for use of IV infusions.
3. Perform a client assessment before initiating an IV infusion.
4. Identify types of infusion equipment; advantages and disadvantages of each.
5. Identify four methods, which can be used to distend veins for venipuncture.
6. State items necessary to assemble prior to initiating an IV.
7. Demonstrate knowledge of and application of appropriate aseptic technique.
8. Describe steps in the procedure of initiating an IV infusion.
9. Perform an assessment of and correctly monitor an IV infusion.
10. Identify the purpose and advantages of volume-controlled infusion monitoring devices.
11. Identify potential hazards related to IV therapy.
12. Develop a basic understanding of the complexity of IV drugs, their actions / interactions and potential effects on body systems.
13. Successfully demonstrate correct skill procedure of venipuncture while maintaining sterile technique in the simulated laboratory setting.

**ACADEMIC INTEGRITY:**

Refer to the Plainview Student Handbook and the SPC Catalog.

**SCANS AND FOUNDATIONS:**

C – 5, 6, 7, 11, 15, 16, 17, 18, 19, 20.

F – 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 17.

**VERIFICATION OF WORKPLACE COMPETENCIES:**

NCLEX-PN Licensure Exam eligibility following successful completion of the one-year vocational nursing program.

**TEXTBOOK:**

Burton, M.A., Smith, D.W., & Ludwig, L.J.M. (2019). *Fundamentals of Nursing Care: Concepts, Connections, and Skills* (3<sup>rd</sup> Ed.). F.A. Davis

Study Guide to accompany textbook

Watkins, C.J. (2018). *Pharmacology Clear and Simple* (3<sup>rd</sup> Ed.) F.A. Davis

\*All material from Curren & Witt will be placed on Blackboard or provided as handouts

ATI (book or online ebook):

PN Pharmacology For Nursing

- *Pharmacokinetics and Routes of Administration*
- *Safe Medication Administration and Error Reduction*
- *Dosage Calculation*
- *Intravenous Therapy*
- *Adverse effects, Interactions, and Contraindications*
- *Principles of Antimicrobial Therapy*

ATI Support Materials: Online Skill Modules

- *Medication Administration*

ATI Support Materials: Online Tests

- Dosage Calculation and Safe Medication Administration 3.0- Complete
  - *Dosages By Weight*
  - *Parenteral IV Medications*
  - *Pediatric Medications*
  - *Powdered Medications*
  - *Safe Dosage*
- Practice Assessments
  - *Dosage Calculation PN Fundamentals Online Practice Assessment 3.0*
  - *Dosage Calculation PN Adult Medical Surgical Online Practice Assessment 3.0*
  - *Dosage Calculation PN Maternal Newborn Online Practice Assessment 3.0*
  - *Dosage Calculation PN Mental Health Online Practice Assessment 3.0*
  - *Dosage Calculation PN Nursing Care of Children Online Practice Assessment 3.0*

**ATTENDANCE POLICY:**

- Refer to the SPC Catalog and the Plainview VNP Student Handbook. **This course is a 1 semester hour course with 2 hours allowable absences.**
- Daily attendance will be taken. Three tardies will be equivalent to one absence. A single tardy is 15 minutes or later to class or leaving 15 minutes or more before class ends. A one-hour absence is given for missing more than 15 minutes of a one- hour length of lecture.

**CELL PHONE POLICY/ EMERGENCY MESSAGES:**

Cells phones must be placed on silent mode. The student should notify his/her family that in case of an emergency during normal class schedule, they should call the Plainview Vocational Nursing Office at (806) 716-4406. Class will not be interrupted unless it is an emergency, so they must identify themselves and say it is an emergency to get immediate action.

**COURSE REQUIREMENTS:**

1. Student is expected to read assigned material and be prepared for class discussion. Audio-visual information is used to assist the student in integration of key components and application of content.
2. Student is expected to complete all assigned worksheets, have a passing score with lab practicum (total of three attempts to be allowed), ATI support materials, content exams, and final exam.
3. Student is expected to follow all guidelines outlined in the College Catalog and Plainview VNP Student Handbook.
4. Student must demonstrate IV initiation by passing the skill competency check-off. The student will have 3 attempts to “*Pass*” this competency. If the competency is not met (if the student does not pass all 3 attempts), the student does not meet the course requirements and the student will not pass the course.
5. Student must demonstrate a grade of 93% or higher on the Calculation Exam. The student will have 3 attempts to meet this competency grade. If the competency grade is not met, the student does not meet the course requirements and the student will not pass the course.

**Documentation Guidelines and APA Formatting (7<sup>th</sup> ed.):**

Information to be reviewed in a class session at the beginning of the semester. Details of presentations, discussions, or handouts to be provided

**GRADING:**

IV Calculation Exam.....	10%
ATI .....	5%
Skills Check-off .....	30%
Content Exams .....	30%
Final Exam .....	20%
Class Participation .....	5%

A	93-100	
B	84-92	
C	*77-83	<b>*77 is the passing score for nursing</b>
D	70-76	
F	69 and below	

Final grades will not be rounded up from a remaining decimal. Your grade will reflect the whole number achieved. (Student Handbook)

**The syllabus, including all assignments, lectures, or exams, are subject to change per instructor's discretion. Quizzes and assignments will be included in the "Class Participation" grading schema. The use of index cards for testing will be determined by instructor. All index cards will be checked prior to Exam.**

**Due dates for assignments and exams will be listed in the syllabus schedule.**

**LATE WORK:**

Requests to submit assignments late must be submitted **prior** to the assignments due date and granted only when illness or emergencies occur. Due dates for assignments and activities are listed in the course syllabus. **Students are expected to submit all assignments on or before 11:59 PM on the scheduled due dates.** Assignments submitted after the scheduled due date and time will receive a 10-point deduction per 24 hours and a zero after 72 hours (i.e. 72 hours and 1 minute).

**EXPECTATIONS FOR COMMUNICATION WITH COURSE FACILITATORS**

Contact your course faculty as soon as possible by the Remind app or Blackboard email for urgent issues such as absences, emergencies, or difficulties with projects or assignments. All non-urgent messages must be sent via Blackboard emails. Faculty will check the course email daily. **All faculty responses (urgent and non-urgent) will be responded to during working hours (8:00 AM- 4:00 PM).** Please check course email and announcements at least once daily for important information and updates.

## CLASS SCHEDULE

- 1-18-22           ORIENTATION: Course Introduction  
                          Syllabus Review, Text References, and ATI Support Materials
- 1-24-22           IV Therapy Basics: Patient Teaching for IV Therapy  
                          Ch.12 – Patient Teaching (Burton/Smith/Ludwig)  
                          Ch. 38- Safe Administration of IV Drugs (Burton/ Smith/ Ludwig)
- 1-31-22           IV Therapy Fluids  
                          Ch. 38 – Purposes of IV Therapy, IV Solutions, Table 38.1 (Common IV  
                          Solutions) (Burton/Smith/Ludwig)  
                          Ch. 17 – Introduction to IV Fluids (Curren/Witt pg. 264)  
                                  Percentages in IV Fluids (Curren/Witt pg. 265)  
                                  Parenteral Nutrition (Curren/Witt pg. 266)  
                          ATI:     Skill Modules - Begin General Review of Available Content
- 2-7-22            IV Medications and Preparing for IV Therapy (Organization/ Thoughts & Actions)  
                          Ch. 10 – IV Medications & Administration; Advantages and Disadvantages of  
                          IV Therapy, Dialysis: Not for Veins; Types of IV Lines (Watkins: pgs. 190-194)  
                          Ch. 38 – Medical Record Review, Preparing the Equipment,  
                          Identifying Peripheral Venipuncture Sites; Selecting a Vein; Performing Final  
                          Preparation of Supplies (Burton/Smith/Ludwig)  
  
                          ATI:     Skill Modules - Begin General Review of Available Content
- 2-14-22           Preparing For IV Therapy (cont.), IV Therapy Equipment & Comparing Venipuncture  
                          Devices  
                          **SKILL 38.6 Initiating Peripheral**  
                          Ch. 38 – Intravenous Equipment (pg. 863-869), Asepsis and IV , Cleaning the  
                          Site, Performing Venipuncture and Cannulation , Determining Proper  
                          Cannulation, Securing the IV Site (Burton/Smith/Ludwig)  
                          Ch. 10 – Intravenous Set-up (pgs. 201-204 Watkins)  
                          Ch. 17 – Introduction to IV Therapy (Curren/Witt pgs. 254 – 264)  
  
                          ATI:     Skill Modules – Continue General Review
- 2-21-22           **Content Exam #1**
- 2-28-22           IV Therapy and Documentation  
                          **SKILL 38.6 Initiating Peripheral Venipuncture** (cont.)  
                          **SKILL 38.7 Adding a New Bag of IV Solution to an existing IV line**  
                          **SKILL 38.3 Concentrating an IV Infusion to a PRN Lock**  
                          Chapt 38- Documenting the Venipuncture, Problem Solving, Discontinuing an  
                          Intravenous Infusion (Burton/ Smith/ Ludwig)  
                          Asepsis for IV Therapy & Special Population Considerations (Gerians &  
                          Pediatrics)

- 3-7-22           Complications of IV Therapy; Elder Care  
                   Ch. 38 – Complications of Peripheral IV Therapy (Burton/Smith/Ludwig) (pg. 880-885)  
                   Ch. 10 – (pg. 205 Watkins)  
                   Elder Care Connection: Performing Venipuncture in Elders (Burton/ Smith/ Ludwig pg. 879)  
  
                   ATI:   Skill Modules – Continue General Review
- 3 -14-22           \*\*\*\*\*SPRING BREAK\*\*\*\*\*
- 3-21-22  
                   IV Calculations  
                   Ch. 38 – Calculation of Infusion Rate (pg. 871 Burton/Smith/Ludwig)  
                   **Skill Set 38.4 Calculating IV Infusion Rate**  
  
                   ATI:   Skill Modules – Continue General Review
- 3-28-22           **Content Exam # 2**
- 4-4-22           IV Calculations (cont.)  
                   IF NEEDED: Ch. 38 – Calculation of Infusion Rate (Burton/Smith/Ludwig) (continued)  
                   Skill Set 38.4 Calculating IV Infusion Rate (continued)  
  
                   Ch. 18 – IV Flow Rate Calculation (pgs. 269 – 286 Curren/Witt)  
                   ATI:   Skill Module - Dosage Calculations  
                   **Skill 38.5 Adding Medications to a Primary IV Solution**
- 4-11-22  
                   Blood and Blood Products & Central Venous Access Devices  
                   Ch. 38 – Blood & Blood Products (Burton/Smith/Ludwig)  
                   Central Venous Access Devices (Burton/ Smith/ Ludwig)  
  
                   **Skill Set 38.9 Preparing, Initiating, & Monitoring the Infusion of Blood & Blood Products**  
                   ATI: Skill Module – Dosage Calculations
- 4-18-22           **Content Exam # 3**

Lab Practicum Review  
Burton/Smith/Ludwig: Ch. 38 – All Skill Sets Review

*CCE Reese: CLINICAL (4-27-22 & 4-28-22)*  
*IV Therapy Initiation & IVPB Administration*

- 4-25-22      **IV Calculation Exam**  
                  ATI: Skill Modules – Continue General Review
- 5-2-21      Final Exam Review
- 5-4-21      **SKILLS CHECK-OFF: INITIATING PERIPHERAL VENIPUNCTURE**  
                  (1300-1600)
- 5-10-21     **FINAL EXAM**



**COURSE OUTLINE:**

- I. Introduction
- II. Special Considerations
- III. Review of Fluids and Electrolytes
- IV. Parenteral Fluids
- V. Intravenous Therapy Equipment
- VI. Techniques for Peripheral Intravenous Therapy
- VII. Complications of Intravenous Therapy
- VIII. Troubleshooting Intravenous Problems
- IX. Calculation of IV Flow Rates
- X. Intravenous Medication Administration

<b>SCANS COMPETENCIES</b>
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- C-1 **TIME** – Selects goals – relevant activities, ranks them, allocates time, prepares and follows schedules.
- C-2 **MONEY** - Uses or prepares budgets, makes forecasts, keeps records and makes adjustments to meet objectives.
- C-3 **MATERIALS & FACILITIES** – Acquires, stores, allocates and uses materials or space efficiently.
- C-4 **HUMAN RESOURCES** – Assess skills and distributes work accordingly, evaluates performances and provides feedback.

**INFORMATION – Acquires and Uses Information**

- C-5 Acquires and evaluates information.
- C-6 Organizes and maintains information.
- C-7 Interprets and communicates information.
- C-8 Uses computers to process information.

**INTERPERSONAL – Works With Others**

- C-9 Participates as members of a team and contributes to group effort.
- C-10 Teaches others new skills.
- C-11 Serves Clients/Customers – works to satisfy customer’s expectations.
- C-12 Exercise Leadership – Communicates ideas to justify position, persuades and convinces others responsibility challenges existing procedures and policies.
- C-13 Negotiates – works toward agreements involving exchanges of resources; resolves divergent interests.
- C-14 Works With Diversity – Works well with men and women from diverse backgrounds.

**SYSTEMS – Understands Complex Interrelationships**

- C-15 Understands Systems – Knows how social, organizational, and technological systems work and operate effectively with them.
- C-16 Monitors and Corrects Performance – Distinguishes trends, predicts impacts in system operations.
- C-17 Improves Designs Systems – Suggests modifications to existing systems and develops new or alternative systems to improve performance.

**TECHNOLOGY – Works With a Variety of Technologies**

- C-18 Selects Technology – Chooses procedures, tools, or equipment, including computers and related technologies.
- C-19 Applies Technology to Task – Understands overall intent and proper procedures for setup and operation of equipment.
- C-20 Maintains and Troubleshoots Equipment – Prevents, identifies, or solves problems with equipment.

<b>FOUNDATION SKILLS</b>
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**BASIC SKILLS – Reads, Writes, Performs Arithmetic and Mathematical Operations, Listens and Speaks**

- F-1 Reading – Locates, understands and interprets written information in prose and in documents such as manuals, graphs and schedules.
- F-2 Writing – Communicates thoughts, ideas, information and messages in writing and creates documents such as letters, directions, manuals, reports, graphs and flow charts.
- F-3 Arithmetic – Performs basic computations; uses numerical concepts such as whole numbers, etc.
- F-4 Mathematics – Approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- F-6 Speaking – Organizes ideas and communicates orally.

**THINKING SKILLS – Thinks Creatively, Makes Decisions, Solves Problems, Visualizes and Knows How to Learn and Reason**

- F-7 Creative Thinking – Generates new ideas.
- F-8 Decision Making – Specifies goals and constraints, generates alternatives, considers risks, evaluates and chooses best alternative.
- F-9 Problem Solving – Recognizes problems, devises and implements plan of action.
- F-10 Seeing Things in the Mind’s Eye – Organizes and processes symbols, pictures, graphs, objects and other information.
- F-11 Knowing How to Learn – Uses efficient learning techniques to acquire and apply new knowledge and skills.
- F-12 Reasoning – Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

**PERSONAL QUALITIES – Displays Responsibility, Self-Esteem, Sociability, Self-Management, Integrity and Honesty**

- F-13 Responsibility – Exerts a high level of effort and perseveres toward goal attainment.
- F-14 Self-Esteem – Believes in own self-worth and maintains a positive view of self.
- F-15 Sociability – Demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings.
- F-16 Self-Management – Assesses self accuracy, sets personal goals, monitors progress and exhibits self control.
- F-17 Integrity / Honesty – Chooses ethical courses of action.

**SCANS FOUNDATION AND COMPETENCY SKILLS (by course)**

<b><u>Foundations; (F)</u></b>		<b><u>Competencies: (C)</u></b>
ECON	230: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 17	2, 15
ENGL	1301 1, 2, 5, 7, 8, 9, 11, 12, 13, 15, 16, 17	5, 6, 7, 8
	1302 1, 2, 5, 7, 8, 9, 11, 12, 13, 15, 16, 17	5, 6, 7
GOVT	2301 1, 2, 10, 11, 12, 17	15
HIST	1302 1, 2, 5, 10, 11, 12, 17	15
MATH	1314 3, 4, 9, 10, 11, 12	–
PSYC	2301 1, 2, 10, 11, 12, 15, 16, 17	4, 14
READ	1314 1, 2, 5, 7, 8, 9, 10, 11, 12, 15, 17	1, 5, 6, 7, 8, 9, 10, 12,
	13, 14, 15	
SPCH	1321 2, 4, 5, 6, 7, 8, 9, 10, 13, 14	1, 5, 6, 7, 14
SOC	1301 1, 2, 5, 8, 9, 10, 11, 12, 15, 16, 17	4, 14
PHYS	1315 1,2,4,10,11,12	–

**Example for PSYC: Scans:** Foundation Skills: 1, 2, 10, 11  
Competencies: 4, 13

## **4.11 Syllabus Statements:**

### **4.1.1.1. Diversity Statement**

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

### **4.1.1.2. Disabilities Statement**

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

### **4.1.1.3 Non-Discrimination Statement**

South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

### **4.1.1.4 Title IX Pregnancy Accommodations Statement**

If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To [activate](#) accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or [email cgilster@southplainscollege.edu](mailto:cgilster@southplainscollege.edu) for assistance.

### **4.1.1.5- Campus Concealed Carry Statement (Rev. 7/28/2021)**

Texas Government Code 411.2031 et al. authorizes the carrying of a concealed handgun in South Plains College buildings by individuals and in accordance with Texas Government Code 411.209 (a). All holders of a valid Texas License to Carry may carry on their person a handgun that is concealed in accordance with Texas Penal Code 46.03 (a-2).

Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy. Individuals may not carry a concealed handgun in restricted locations.

For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php>

Report violations to the College Police Department at 806-716-2396 or 9-1-1.

## **FACE COVERING COURSE SYLLABUS STATEMENT:**

In compliance with GA-38, SPC will not require any person to wear a face covering. However, we support anyone who chooses to wear a face covering to maintain safety as greater numbers of students, employees, and visitors come to our different campuses. This policy is subject to change. If you are experiencing any of the following symptoms, please do not attend class and either seek medical attention or get tested for COVID-19. • Cough, shortness of breath, difficulty breathing • Fever or chills • Muscles or body aches • Vomiting or diarrhea • New loss of taste and smell Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at [dedens@southplainscollege.edu](mailto:dedens@southplainscollege.edu) or 806-716-2376.

Consistent with the latest CDC recommendations, we have revised our guidance for students, faculty, and staff who have a known exposure or have tested positive. Anyone with a known exposure should wear a mask for 10 days and should seek a COVID-19 test on day five after exposure. If you test positive or develop symptoms, you should immediately self-isolate and seek a COVID-19 test. **Please immediately notify your instructor, supervisor, and DeEtte Edens, Associate Director of Health and Wellness, any time you test positive for COVID-19.** Anyone who tests positive is required to self-isolate for five days. Following the five-day isolation period, if you are asymptomatic or your symptoms are resolving, you may return to work or class but should wear a mask for five additional days. If you are still symptomatic, please contact DeEtte Edens at [dedens@southplainscollege.edu](mailto:dedens@southplainscollege.edu) or 806-716-2376 prior to your return date.

**Student is responsible in following all clinical affiliate facility policies and procedures.**

**Plagiarism Declaration**  
**Department of Nursing**  
**South Plains College**  
**(VNSG 1171.501)**

By signing this plagiarism declaration I acknowledge that I have received a copy of the honesty policy and been made aware that the penalty for plagiarism is dismissal from the program.

Examples of student plagiarism<sup>1</sup>

- Copying material without quotes, in-text citations, and/or referencing
- Paraphrasing content without in-text citation and/or referencing
- Copying ideas, words, answers, exams, or shared work from others when individual work is required
- Using another's paper in whole or in part
- Allowing another student to use one's work
- Claiming someone else's work is one's own
- Resubmitting one's own coursework, when original work is required (self-plagiarism)
- Falsifying references or bibliographies
- Getting help from another person without faculty knowledge or approval
- Purchasing, borrowing, or selling content with the intent of meeting an academic requirement for oneself or others

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Printed Name

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Signature

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Date

1. Smith, L. Conquering plagiarism in nursing education. *Nursing 2016*. 2016; 46(7):17-199