

Levelland Campus

Course Syllabus

COURSE: RNSG 1441 (4:4:1) Common Concepts of Adult Health

SEMESTER: Spring 2022

CLASS DAYS: See Course Calendar

CLASS TIMES: See Course Calendar

FACULTY

Faculty Name	Phone Number	Email	Office
Kim Schober MSN, RN CRRN (Course Leader)	O: 806-716-2382	KSchober@southplainscollege.edu	AH112c
Destinie Stone BSN RN RN- BC	O: 806-716-2383	DStone@southplainscollege.edu	AH112b

OFFICE HOURS: 9AM- 12 NOON TUESDAYS

All Faculty can be reached via EMAIL or REMIND App during business hours

Scheduling will be required for one on one counseling

“South Plains College improves each student’s life.”

GENERAL COURSE INFORMATION

***It is the responsibility of each student to be familiar with the content and requirements listed in the course syllabus. ***

COURSE DESCRIPTION

RNSG 1441 builds on the knowledge and skills acquired in RNSG courses 1513, 1105, 1144, 1160, and 1115. It focuses on common health problems requiring physical and emotional support to patients and their families experiencing stressors. A person is viewed as a holistic individual who interacts constantly with the environment. Increased emphasis is placed on critical thinking/problem solving and the effects of stressors on patients and their families. Pharmacology, nutrition, gerontology, growth and development and cultural perspectives are integrated throughout the course. The student will continue to

develop skills necessary to make appropriate nursing practice decisions by using clinical data and current literature including evidence-based practice information in conjunction with the nursing process.

RNSG 1441 presents the theory of clinical nursing as applied to the adult patient seeking to “...maintain or regain balance as the individual moves along a continuum towards positive outcomes” (SPC ADN Philosophy). The course is designed to prepare the student to assess, analyze, plan, intervene and evaluate the nursing care of adult patients and their families emphasizing knowledge, judgment, skills, and professional values within a legal/ethical framework.

Through laboratory and selected clinical experiences (offered in the co-requisite course of RNSG 2460) the student will learn to function effectively as a member of the health care team by applying the nursing process and principles of teaching/learning appropriate to nursing care of individual patients and their families. Continuing emphasis is placed on the role of the nurse as **Member of the Profession, Provider of Patient Centered Care, Patient Safety Advocate and Member of the Health Care Team**. The student will access appropriate referral sources in order to utilize resources within the community to meet the various needs of individual patients and their families. Students will evaluate their own strengths and needs related to personal and professional growth and development. This will enhance their ability to make required behavioral modifications and apply appropriate ethical and legal principles of practice in order to serve as a health care advocate for patients and their families. This course lends itself to a blended approach. **Students will be introduced to the following concepts: Civility, Community readiness for emergencies and crises, Culture of safety, Global health, Just culture, Nursing Peer Review, Self-Care, Service excellence, Social determinants of health, Social justice, Vulnerable patient populations, Workplace violence.**

This course is a “blended” course meaning that we utilize Blackboard a great deal for content and communication. The course is not all classroom, or all online. You are expected to check into your Blackboard course frequently (as in every day) to check for new messages, access content, get assignment postings, take quizzes as posted and, view changes to the calendar, schedule or content should this become necessary. If you are having difficulty accessing or using any components of Blackboard please use the following contact information. For specific help email **Brooke Walker** at bawalker@southplainscollege.edu or call 716-2180. For an email address that reaches everyone in the Instructional Technology department, please use blackboard@southplainscollege.edu.

COURSE OBJECTIVES

Upon satisfactory completion of RNSG 1441, the student will:

1. Meet the Course Student Learning Outcomes (SLO) for Semester II and progress toward meeting the SPC ADN End of Program Student Learning Outcomes (EPSLO).
2. Meet the “Secretary’s Commission on Attaining Necessary Skills” (SCANS) Competencies (C) and Foundations (F) Skills: [C-1, C-5, C-6, C-7, C-8, C-9, C-10, C-12, C-13, C-14, C-18, C-20] [F-1, F-2, F-3, F-4, F-5, F-6, F-7, F-8, F-9, F-10, F-11, F-12, F-13, F-14, F-15, F-16, F-17]
A detailed listing of SCANS Competencies and Foundation Skills are attached.

3. Meet the Texas BON “Differentiated Essential Competencies” 2021 (DECS) identified in each course content unit of study. **Nursing Roles** are designated by the following numbers: **1**= Member of the Profession; **2**= Provider of Patient-Centered Care; **3**= Patient Safety Advocate; and **4**= Member of the Health Care Team.

4. Demonstrate workforce skills requiring responsibility and accountability will be enhanced as the student develops increased self-esteem and confidence through successful completion of collaborative projects assigned throughout the course.

5. Demonstrate better utilization of critical thinking skills and a systematic problem-solving process in providing care for adult patients and families with common health needs.

END OF PROGRAM STUDENT LEARNING OUTCOMES (EPSLO)

1. Clinical Decision Making: Provides competent nursing interventions based on application of the nursing process and demonstrates critical thinking, independent judgment and self-direction while caring for patients and families. (2=Provider of Patient-Centered Care)

2. Communication and Information Management: Communicates effectively utilizing technology, written documentation and verbal expression with members of the health care team, patients and families. (4= Member of the Health Care Team)

3. Leadership: Demonstrates knowledge of basic delegation, leadership management skills, and coordinates resources to assure optimal levels of health care for patients and families. (4=Member of the HealthCare Team)

4. Safety: Implements appropriate interventions to promote a quality and safe environment for patients and families. (3=Patient Safety Advocate)

5. Professionalism: Demonstrates knowledge of professional development and incorporates evidenced-based practice in the nursing profession. Utilizes concept of caring, including moral, ethical, and legal standards with astute awareness of the spiritual, cultural and religious influences on patients and families. (1-Member of the Profession)

COURSE STUDENT LEARNING OUTCOMES (SLO): SEMESTER II

CLINICAL DECISION MAKING

1. Apply critical thinking by integrating nursing concepts, principles, and pathophysiologies with application of the nursing process as they apply to clinical situations to meet the basic needs of adult patients in a variety of settings.
2. Interpret evidence-based practice and nursing research supporting clinical reasoning and nursing skills in order to demonstrate safe and effective nursing care to patients and their families.
3. Demonstrate clinical reasoning regarding principles of teaching-learning in the delivery of nursing care to patients and their families.

COMMUNICATION AND INFORMATION MANAGEMENT

4. Utilize regulatory and ethical guidelines necessary to protect confidentiality while utilizing technological skills necessary to document, access health care databases, and access multiple online resources to deliver care.
5. Demonstrate effective communication with adult patients, families, and members of the health care team to achieve positive outcomes.

LEADERSHIP

6. Collaborate/delegate effectively with members of the health care team in planning and decision-making to achieve desired outcomes for the adult patient.
7. Identify the role of the nurse as advocate for patients and their families.

SAFETY

8. Demonstrate knowledge of pharmacotherapeutics and other therapies and treatments through consistent delivery of safe medication administration.
9. Demonstrate clinical decision-making that results in finding solutions, individualizing care, and assuring the delivery of safe care that facilitates advancing the patient and families toward positive outcomes.
10. Identify and apply current National and State guidelines and procedures in order to reduce patient risk of unfavorable outcomes.

PROFESSIONALISM

11. Demonstrate caring and respectful behavior when interacting with patients, families, faculty and members of the health care team.
12. Assume responsibility for professional and personal growth and development.
13. Apply ethical and legal responsibility for one's own nursing practice.

Texas BON “Differentiated Essential Competencies” 2021 (DECS) for Semester II will introduce the following concepts:

I. Member of the Profession

- a. Legal scope of practice
- b. Accountability for nursing care
- c. Professionalism
- d. Personal professional growth (competencies)

II. Provider of Patient-Centered Care

- a. Clinical reasoning and decision-making
- b. Patient assessment
- c. Analysis of patient assessment
- d. Goals for plan of care
- e. Safe and competent nursing care
- f. Evaluation of patient responses
- g. Patient teaching
- h. Coordination of care

III. Patient Safety Advocate

- a. Regulations
- b. Quality and safety of patient care
- c. Reduction of patient risk
- d. Seek instruction/training
- e. Mandatory reporting
- f. Delegation and assignment

IV. Member of the Health Care Team

- a. Communication and collaboration
- b. Advocacy
- c. Continuity of care
- d. Use of technology
- e. Delegation and assignment
- f. Supervision
- g. Global Health

ACADEMIC INTEGRITY

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences **which includes an automatic zero “0” grade on the assignment or exam, and possible suspension. An academic dishonesty / integrity incident report will be filed and placed in your academic record.**

Cheating - Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in the office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of coursework. This applies to online quizzes of whatever length, as well as examinations completed on campus.

Plagiarism - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes, reports or other writings of a fellow student, is guilty of plagiarism.

Examples of student plagiarism¹

- 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
- Violations of the honesty policy including cheating during testing, plagiarizing another's work, and falsifying records will result in dismissal from the program. See Student Handbook.

1. Smith, L. Conquering plagiarism in nursing education. *Nursing* 2016. 2016; 46(7):17-19.

VERIFICATION OF WORKPLACE COMPETENCIES

Successful completion of this course requires a grade of “C” or better (77.00% and above); satisfactory total grade point average on examinations; satisfactory achievement of unit and clinical objectives (RNSG 2460); satisfactory completion of math competency exam with a grade reflective of no more than 2 incorrect calculations; and regular classroom/clinical attendance. Upon successful completion of this course, each student will have demonstrated accomplishment of the course SLOs, through a variety of modes (prelims, quizzes, group work, presentations, etc.). Each student will be able to explain the roles of the professional nurse in caring for adult patients and families. Each student will have demonstrated utilization of critical thinking skills and use of a systematic problem-solving process in providing care for adult patients and families with common health needs.

The current program grading scale is as follows:

90% – 100% = A

80.00% - 89.99% = B

77.00% - 79.99% = C *

70% - 76.99% = D (which constitutes a failure for RNSG 1441)

The grade for this course will be determined upon completion of the following components:

Quizzes:	10%
Prelims:	40%
Pharm:	10%
Midterm:	20%
Final:	20%

TO FIGURE YOUR OVERALL AVERAGE: DO NOT ROUND

- Take your **Prelim Average** and multiply it by .40
- Then take your **Quiz Average** and multiply it by .10
- Then take your **Pharm grade** and multiply it by .10
- Then take your **Mid-Term grade** and multiply it by .20
- Then take your **Final Exam grade** and multiply it by .20

ADD: A + B + C + D + E + together to get your overall course average

SPECIFIC COURSE INFORMATION

TEXTBOOKS AND MATERIALS: (*INCLUDED WITH COURSEPOINT PLUS)

Hinkle & Cheever: COURSE POINT + Access: Brunner & Suddarth's Textbook of Medical-Surgical Nursing, (14th edition). Lippincott Williams & Wilkins

NOTE: This includes an online copy of the book. If you choose to purchase the hardback copy, be sure to also purchase the COURSEPOINT + Access Separately

Frandsen & Pennington: (12th Edition) COURSE POINT + Access: Abrams' Clinical Drug Therapy Lippincott Williams & Wilkins.

NOTE: This includes an online copy of the book. If you choose to purchase the hardback copy, be sure to also purchase the COURSEPOINT + Access Separately

*Carpenito, L. (15th Edition). Handbook of Nursing Diagnosis. Lippincott Williams & Wilkins

*Gahart, B. (Newest Edition). Intravenous Medications. A handbook for Nurses and Health Professionals. St. Louis, MO: Elsevier

*Kee, Joyce LeFever (newest edition). Laboratory and Diagnostic Tests with Nursing Implications. Upper Saddle River, New Jersey: Pearson Prentice Hall.

*Kee, J.L. (8th Edition). Fluids and Electrolytes with Clinical Applications. Clifton Park, NY. Delmar Cengage Learning

*Drug Handbook

*Medical Dictionary

*Pathophysiology textbook

Recommended Texts:

Houghton, P (newest edition) APA The Easy Way

Pocket Nurse Guide to Physical Assessment of Choice

Macklin D., Chernecky C., Infortuna M H. (newest edition).

Math for Clinical Practice St. Louis, Missouri: Mosby, Inc

ATTENDANCE POLICY (*READ CAREFULLY)

Online Classroom Attendance

The **SPC ADNP policy must be followed**. Refer to the SPC ADNP Nursing Student Handbook to review this policy. Also, review the attendance policy found in the South Plains College Catalog. Attendance is expected. In addition to the ADNP policy please note: **You cannot miss more than eight (8) hours of theory and remain in RNSG 1441**. According to SPC Student Handbook, there are no excused absences. The instructor/course team leader has the prerogative of dropping the student from the course for excessive absences. Students are expected to attend all **online** lecture days. In the event of illness, it is the student's responsibility to notify his/her instructor.

After 8 hours an instructor-initiated drop will be completed, and the student will receive an "X" on their transcript. Also, **refer to clinical requirements specific for this course in the clinical syllabus for RNSG 2460**.

Dropping a class

Dropping a class will be instructor initiated.

If a student is not successful in one or more of the following courses: RNSG 1411 or RNSG 2460 the instructor will meet with the student to discuss which class(es) will be dropped and which class(es) a grade will be assigned.

Withdrawing from all classes

If a student wishes to withdraw from all courses, they should initiate that process with the Advising Office. They can schedule an appointment with an advisor by visiting <http://www.southplainscollege.edu/admissionaid/advising/spcadvisors.php> or by calling 806-716-2366.

Schedule Change (after late registration and before census date)

To make a schedule change after late registration and before the census date, students should submit a **Schedule Change Form**.

After late registration, adding a class requires instructor approval. If a student is requesting to be added to one of your courses and you approve, please email registrar@southplainscollege.edu with your approval. This can take the place of signature on the Schedule Change Form that we have required in the past.

For additional information regarding schedule changes, drops and withdrawals, [click here](#).

ASSIGNMENT POLICY

All required work must be completed and turned in **on time**. Assigned work is due on the dates/times/formats specified by the instructor or specified in Blackboard. Refer to the course calendar, blackboard email, discussion board, announcements on Blackboard for due dates/information for required assignments.

ELECTRONICS POLICY

*During **online** lecture, **isolate yourself in a quiet place** to prevent interruptions.

*Students must ask permission from the instructor before audio recording a lecture.

*Students, classmates and the instructors maintain the right to refuse to be audio and/or visually recorded.

PRINTING/COMPUTER LAB USAGE

Please check with the computer lab on policies for printing.

EVALUATION METHODS / GRADING POLICY

*Refer to SPC ADNP Nursing Student Handbook Grading System.

1. **Exams/Quizzes may be completed in the computer lab or online thru ExamSoft, ClassroomPerformance System (CPS), Blackboard or CoursePoint +.**
Prelim exams are timed and limited to 2 hours maximum and the midterm and final exams are timed and limited to 3 hours. You must complete a prelim within the time limit of when the exam is started, regardless when you begin to take the test. This also applies for the midterm and final exams.
2. The student **must communicate with one of the course instructors** if unable to take an exam on a scheduled day. If there is no communication by ONE week from the date of exam, a "0" will be given.
Alternate exams may be given in the event a student misses a scheduled exam.
3. A student may be exempt from the final exam only if their **testing average** (including the midterm grade) is **90.00%** or higher. If exempt from taking the final exam, the student's testing

average will become the student's final exam score which is worth 20% of the overall grade. Eligible students may take the final if they wish, **but** the grade obtained on the final exam will be recorded as the final exam grade, even if it is a failing grade. Students eligible for exemption will be notified before final exam.

* Note: Students **MUST** obtain at least a 77.00% (No Rounding) in order to pass RNSG 1441.

CLASS SCHEDULE

Follow the class schedule in Blackboard. Schedule is subject to change as the class and the instructors see fit. Any changes will be announced

CAMPUS CARRY

4.1.1.5 Campus Concealed Carry Statement

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>

Concealed Carry (Also Known as Campus Carry)

FAQs. What is Senate Bill 11, sometimes known as Campus Carry? Texas Senate Bill 11 allows for the carrying of concealed handguns on Texas public institution campuses by individuals holding a valid Texas License to Carry (LTC) or Concealed Handgun License (CHL).

www.southplainscollege.edu

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

Clinical Syllabi: Add

Concealed Carry of any handguns is strictly prohibited in any clinical facility.

STUDENT CONDUCT

Rules and regulations regarding student conduct appear in the current Student Handbook.

SPECIAL REQUIREMENTS

1. **Clinical Component:** Specific guidelines for the clinical component can be found in the RNSG 2460 Syllabus. These guidelines should be reviewed carefully.
2. **Skills Laboratory Component:** The skills laboratory component serves the following functions:
 - a. Provides the opportunity for students to practice their skills prior to clinical practice of those skills. The nursing faculty expects the nursing student to develop safety and a beginning level of proficiency with procedures by utilizing the college laboratory. This will minimize student anxieties in the clinical setting and maximize positive production outcomes for both the patient and the nursing student.
 - b. Provides the opportunities for the student to be evaluated according to the criteria of adequacy identified in the clinical evaluation tool (simulation).
 - c. Required skills will be available for review in the Videos section in Blackboard.
 - d. Students will be expected to practice all demonstrated skills, and complete solo and partner documented practice time, and record skills as assigned.
 - e. Students will be expected to wear scrubs or SPC uniform while practicing in the skills lab. Students may wear a SPC ADN program t-shirt with scrub bottoms.

When performing skills checkoff utilizing video-recording rooms, full SPC clinical dress code is required.

SKILLS CHECKOFF GUIDELINES

Virtual IV simulation check-off must be completed with a successful IV start and a grade of 90% or above with debriefing sheet prior to IV start skill check-off at the Reese Simulation Center. See Calendar for IV Stick Day.

Each student is required to view the online skill demonstration videos in Blackboard.

Video Recording for Suctioning/Trach Care, IV Therapy, and CVC Care and flush Scenarios:

Each student will be responsible for getting his or her practice time completed in the lab prior to filming.

Practice time will be again, a MINIMUM of 4 hours to be documented by lab staff.

There will be a mandatory skills taping in the skills lab, a mandatory skills practice day at the Reese Simulation Center and a final skills check off at the Reese Simulation Center, see calendar for date. In order to move on to the clinical setting, all skills must be passed at the final skills check off at the Reese Simulation Center.

This practice time must be done individually or in pairs only. One hour individual practice time is MANDATORY. The other minimum 3 hours may be with one partner only. Any additional practice time over the minimum required 4 hours must be performed individually or with a partner (one additional person) only.

The filming times will be assigned and MUST be kept. This will enable the instructor to grade the films. There are limited sessions per day. You are REQUIRED to sign up and adhere to your assigned time.

If an assigned time is not kept, this will count as your first failure and there will only be one additional opportunity to pass your skills for this semester.

You must have your skills recording completed by the assigned deadline or that recording will be counted as a failure.

If you fail your second attempt at skills, this will signify a failure for RNSG 2460 and you will be withdrawn from the course.

If you do not complete the skills within the allotted time frame, this will also constitute a failure.

The total time allowed for video recording will be one hour. You will receive a scenario 30 minutes prior to your video time so that you may prioritize the care you are going to give, prepare your tape room, and calculate an IV drip rate in gtts/min (this time is not included in the actual 1 hour recording time).

You are required to prioritize the care and demonstrate all skills:

- Trach care and tracheal suctioning
- CVC care/dressing change
- IV therapy (spike and prime a primary infusion, spike and prime a secondary infusion, administer IV therapy through a central line, and calculate drip rates in gtts/min for both infusions) □
- Flush/heparinize a central line

You are required to demonstrate all skills regardless of what your scenario indicates.

After you finish recording, if there is time within your hour, you may re-demonstrate a skill or two that you feel need to be redone. **REMEMBER**, this must be done within the one hour time limit! At the end of your 1 hour time period, you must end recording.

PERIOPERATIVE SKILLS CHECK-OFF

The surgical scrub, and closed gowning and gloving are the skills associated with your OR experience.

The skills demonstration is available online via Blackboard. You will be responsible for viewing the videos and practicing prior to the OR Scrub check-off day.

OR Scrub check-off will be on the course calendar.

These skills must be passed in order to attend and participate in the OR experience in the clinical setting.

ACCOMMODATIONS

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.

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 or visit <http://www.southplainscollege.edu/health/disabilityservices.php>

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.

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 for assistance.

EMERGENCY MESSAGES

The student should notify his/her family that in case of an emergency during normal class schedule, they should call the Nursing Office at (806)716-2391 or (806)716-2193. 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.

The student should notify his/her family that in the case of an emergency during clinical rotations, they should call and leave a message or text (who they are and who they need to get in touch with for an emergency) to the number or numbers provided to them in the clinical course syllabus and/or on the clinical course schedule.

FOUNDATION SKILLS

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 basic numerical concepts such as whole numbers, etc.**
- F-4 Mathematics--Approaches practical problems by choosing appropriately from a variety of mathematical techniques.**
- F-5 Listening--Receives, attends to, interprets, and responds to verbal messages and other cues. F6 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, and evaluates and chooses best alternative.**
- F-9 Problem Solving--Recognizes problems and 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 preservers towards 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 accurately, sets personal goals, monitors progress, and exhibits self-control**
- F-17 Integrity/Honesty – Chooses ethical courses of action.**

SCANS COMPETENCIES

RESOURCES -- Identifies, organizes, plans and allocates resources.

- C-1 TIME--** Selects goal-- relevant activities, ranks them, allocates time, and 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--** Assesses 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 patients/customers-- Works to satisfy customer's expectations.
- C-12** Exercises leadership-- Communicates ideas to justify position, persuades and convinces others, responsibly 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 operates effectively with them
- C-16** Monitors and Correct Performance - Distinguishes trends, predicts impacts on system operations, diagnoses systems' performance and corrects malfunctions.
- C-17** Improves or 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, including computers and other technologies.