

South Plains College-Reese Center

Course Syllabus

COURSE: RADR 1309-200 (3:0:0), Introduction to Radiography and Patient Care
SEMESTER: Fall 2026
CLASS TIMES: MW: 10:00-11:20
INSTRUCTOR: Erica Castillo
OFFICE: RC 512A
OFFICE HOURS: MW: 11:30-1:30 TR: 9:00-11:00 F: by appointment
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“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

This course provides an overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the profession and to the health care system. Patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology are also included.

COURSE OBJECTIVE

This course will provide the necessary information that will allow the student to assume the responsibilities of patient care and radiation protection for patients and personnel, including him or herself.

STUDENT LEARNING OUTCOMES

Define basic medical terms; identify ethical and legal standards; explain basic radiation protection practices; assess patient condition; describe infection control procedures; recognize and respond to emergency situations; identify relevant pharmaceuticals and their applications; and describe basic medical equipment operations.

EVALUATION METHODS

The course grade will be determined by a combination of lab proficiencies, pop quizzes, major exams and a comprehensive final exam.

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, possibly suspension.

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 quizzes of whatever length, as well as final examinations, to daily reports and to term papers and projects.

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.

If found cheating or plagiarizing, the student's future in this program will be based on the decisions from the Allied Health Departmental Director's Committee.

HONORLOCK TEST PROCTORING

All exams taken while in the Radiologic Technology Program (in-person or virtually) are proctored through Honorlock.

Honorlock will monitor the following:

- Your computer screen
- Your web traffic (browser)
- Your use of a provided calculator
- URL(s) visited

The copy, paste, & print functions will be disabled during the exam.

The student will be allowed a scratch piece of paper (provided by and then collected by the instructor) and something to write with.

Any issues with any of the following will be addressed.

BLACKBOARD

Blackboard is an e-Education platform designed to enable educational innovations everywhere by connecting people and technology. This educational tool will be used in this course throughout the semester.

The student should only access his or her own Blackboard account. Granting permission to another or accessing another student's Blackboard account is prohibited and against the Academic Integrity code.

SOCIAL MEDIA

Facebook: <https://www.facebook.com/spradtechprogram>

Instagram: <https://www.instagram.com/spradtech/>

SCANS and FOUNDATION SKILLS

Scans and foundation skills are identified for specific course objectives. A complete list explaining these skills is attached to the back of the syllabus for your information

SPECIFIC COURSE INFORMATION

TEXT AND MATERIALS

The text and materials used for this course are provided and embedded within the course units. Each unit may contain readings, assignments, internet research, tables, illustrations, and/or videos that will enhance the student learning outcomes.

ATTENDANCE POLICY (*READ CAREFULLY*)

SPC - Students are expected to attend all classes to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus.

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

SPC Radiologic Technology - Class attendance is mandatory. Students with **three (3) absences** will be counseled. **Students are allowed five (5) absences during fall semester.** After the 5th absence, the student will be dropped from the program regardless of the student's grade. Policies regarding absences coincide with those established for South Plains College as outlined in the SPC General Catalog.

An absence is an absence. The Radiologic Technology faculty do not distinguish between an excused and an unexcused absence.

It is extremely important that students arrive for class **ON TIME**. **Tardiness** disrupts the instructor and the other students. Students who chronically arrive late will be counseled. The student should be prepared for class at the scheduled class start time. **Three (3) tardies will equal one (1) absence.**

Students with perfect attendance and two (2) or less tardies will be awarded two (2) points to their final grade at the end of the semester.

***Daily attendance will be taken promptly at the beginning of class.**

DROPS AND WITHDRAWALS

<http://www.southplainscollege.edu/admission-aid/apply/schedulechanges.php>

ADVISING

<http://www.southplainscollege.edu/admission-aid/advising/spcadvisors.php>

INSTRUCTIONAL METHODS

The student will receive course information through a series of lectures, PowerPoint presentations, illustrations, videos, lab assignments, role playing exercises, and textbook reading assignments.

CLASSROOM PARTICIPATION

Attending class regularly will provide the student with the opportunity to supplement their reading assignments and acquire a better understanding of the course material. Class time that is missed will result in information gaps and will increase course difficulty. It is the student's responsibility to attend class which will enable him or her to take notes, ask questions, and participate in class discussions. Information handouts may be given in certain instances, but the student should not rely on them. The student is encouraged to take adequate notes during class. Recording class is permitted.

ASSIGNMENT POLICY

The student is responsible for being prepared for class, which means any assigned reading or assignments, should be done prior to class. In some instances, information from the reading assignments not covered during class may be included on an exam.

COMPUTER USAGE

As computer technology in the field of health sciences continues to become more popular, computers will be used in this course for several assignments. All students have access to open computer labs and printers on the South Plains College campus. Students will be expected to utilize computers to access assignments and classroom resources. All registered students are supplied with a working email account from South Plains College. To take exams, students must have their user name and password.

ALL STUDENTS ARE EXPECTED TO KNOW THEIR SPC STUDENT USER NAME AND PASSWORD.

COMPUTER LAB USAGE

The open computer lab(s) on any campus may be used by students during scheduled open hours or as assigned by an instructor. Printer paper will not be provided for students to print materials, but students may seek assistance from faculty or staff to request lab paper from the college if needed. Lack of computer lab paper is not an excuse for not having homework assignments, skills lab sheets, or any other required documents. Students should come prepared for class.

REVIEW

If a student needs assistance with reviewing any of the information given during class or lab, the student is encouraged to make an appointment with the instructor.

CONFERENCES

If at any time a student is not satisfied with their overall performance, he/she is encouraged to schedule an appointment with me. If necessary, a plan can be developed to help the student improve in their areas of weakness.

GRADING RUBRIC

Grades in this course will be determined using the following criteria:

Assessment Tool	Assessment Criteria	Percentage Score	Grade
LAB PROFICIENCIES 10%	✓ Exceptional unit content knowledge & understanding	90 – 100	A
	✓ Good unit content knowledge & understanding	80 – 89	B
	✓ Average unit content knowledge & understanding	75 – 79	C
	✓ Unacceptable unit content knowledge & understanding	0 – 74	F
POP QUIZZES / ASSIGNMENTS 10%	✓ Exceptional unit content knowledge & understanding	90 – 100	A
	✓ Good unit content knowledge & understanding	80 – 89	B
	✓ Average unit content knowledge & understanding	75 – 79	C
	✓ Unacceptable unit content knowledge & understanding	0 – 74	F
MAJOR EXAMS (4) 50%	✓ Exceptional course content knowledge & understanding	90 – 100	A
	✓ Good course content knowledge & understanding	80 – 89	B
	✓ Average course content knowledge & understanding	75 – 79	C
	✓ Unacceptable unit content knowledge & understanding	0 – 74	F
FINAL EXAM 30%	✓ Exceptional unit content knowledge & understanding	90 – 100	A
	✓ Good unit content knowledge & understanding	80 – 89	B
	✓ Average unit content knowledge & understanding	75 – 79	C
	✓ Unacceptable unit content knowledge & understanding	0 – 74	F

Course Grade: A	90 – 100
B	80 – 89
C	75 – 79
F	0 – 74

A grade average of C (75) must be maintained in all RADR classes. Failure to do so will result in the student being dropped from the program.

Lab Proficiencies – 10%

Lab proficiencies will be given when visiting the Sim lab and/or the classroom lab. Proficiencies will be graded by a check-off list that will be given to the student prior to the lab visit.

The following guidelines will be followed regarding **Lab Proficiencies**:

1. The student will have prior review and study of the check-off list.
2. The student will not use the check-off list to complete the proficiencies.

Pop Quizzes / Assignments – 10%

Pop quizzes will be randomly given throughout the semester to ensure that the student is comprehending the modules presented. Pop quizzes will be multiple choice, fill in the blank and/or matching. They will be taken in the classroom using a pen and paper or electronically in the computer lab.

Assignments will be assigned throughout the semester. They will be relevant to the unit and information that has been given. They will be done via handouts or in Blackboard.

The following guidelines will be followed regarding **Pop Quizzes**:

1. The student must complete the pop quiz in the allotted time given by the instructor.
2. There will be **NO** make-up pop quizzes.
3. If a pop quiz is missed, the student will receive a zero for the quiz.
4. A student arriving late during a pop quiz will not be allowed to take the quiz if **any** student has completed the quiz and left the room. This will also count as a tardy.
5. No cell phones, smart watches, smart glasses, calculators or other electronic assistance devices are allowed during pop quizzes.
6. No hats, hoodies, beanies, headphones, earpieces, etc. may be worn during an exam.

Major Exams – 50%

Scheduled major exams will be given throughout the semester following each module presented. Exams will be taken electronically in the computer lab.

The following guidelines will be followed regarding **Major Exams**:

1. The student will complete the exam at the scheduled time. **Make-up exams are at the instructor's discretion.**
2. The student must complete the exam within the allotted class time of **75 minutes**.
3. If a major exam is missed, a zero will be recorded in the gradebook for that exam.
4. A student arriving late for an exam will not be allowed to take the exam if **any** student has completed the exam and has left the room. This will also count as a tardy.
5. No cell phones, smart watches, smart glasses, calculators or other electronic assistance devices are allowed during exams.
6. No hats, hoodies, beanies, headphones, earpieces, etc. may be worn during an exam.
7. Major exams are not available to print or save. Once you have finished your exam, please review the exam. **Students may review exams in the instructor's office by appointment.**

After TWO failed exams in a RADR course it is mandatory that the student:

- will meet with the instructor of that course and the Early Alert process will be initiated.
- will meet with an academic advisor/counselor before the next exam of that course.
- submit documentation to the instructor of the academic advisor/counselor meeting.

Final Exam – 30%

A comprehensive final exam will be given at the end of the semester. Two hours will be allotted for the final exam which will be completed electronically in the computer lab.

The following guidelines will be followed regarding the **Final Exam**:

1. The final exam will be comprehensive.
2. The final exam must be completed within the allotted time, **2 hours**.
3. If the final exam is missed, a zero will be recorded in the gradebook for that exam.

4. A student arriving late for an exam will not be allowed to take the final exam if **any** student has completed the exam and left the room.
 5. No cell phones, smart watches, smart glasses, calculators or other electronic assistance devices are allowed during exams.
 6. No hats, hoodies, beanies, headphones, earpieces, etc. may be worn during an exam.
 7. The final exam is not available to print or save. Once you have finished your exam, please review the exam. **Students may review exams in the instructor's office by appointment.**
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COMMUNICATION POLICY

Electronic communication between instructor and students in this course will utilize the South Plains College email systems and GroupMe. The instructor will not initiate communication using private email accounts. **Students should check their SPC email and GroupMe daily.**

STUDENT CONDUCT

Students in this class are expected to abide by the standards of student conduct as defined in the SPC Student Guide and the Radiologic Technology Program Student Handbook.

Rules and regulations relating to the students at South Plains College are made with the view of protecting the best interests of the individual, the general welfare of the entire student body and the educational objectives of the college. As in any segment of society, a college community must be guided by standards that are stringent enough to prevent disorder, yet moderate enough to provide an atmosphere conducive to intellectual and personal development.

A high standard of conduct is expected of all students. When a student enrolls at South Plains College, it is assumed that the student accepts the obligations of performance and behavior imposed by the college relevant to its lawful missions, processes and functions. Obedience to the law, respect for properly constituted authority, personal honor, integrity and common sense guide the actions of each member of the college community both in and out of the classroom.

Students are subject to federal, state and local laws, as well as South Plains College rules and regulations. A student is not entitled to greater immunities or privileges before the law than those enjoyed by other citizens. Students are subject to such reasonable disciplinary action as the administration of the college may consider appropriate, including suspension and expulsion in appropriate cases for breach of federal, state or local laws, or college rules and regulations. This principle extends to conduct off-campus which is likely to have adverse effects on the college or on the educational process which identifies the offender as an unfit associate for fellow students.

Any student who fails to perform according to expected standards may be asked to withdraw.

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

CELL PHONES / SMART WATCHES / SMART GLASSES

Cellphones must be put away and are to be turned **off** or put on **silent** during scheduled class/lab periods, unless prior approval has been given from the instructor. Cell phones are to be used only outside of the classroom while class is in session. **THIS INCLUDES TEXT MESSAGING AND/OR INTERNET BROWSING.**

Wearing a smart watch in **class** is permitted, however they cannot be used and are to be turned **off** or put on **silent** during scheduled class/lab periods. They cannot be worn during any exams.

Smart glasses are never permitted in the class/lab periods, or during any exams.

Students will be dismissed from class/lab and sent home if a phone continuously rings/vibrates or if the student is discovered texting or browsing the internet. If dismissed from class, the student will receive an **absence for the day. In case of emergencies, please step outside of the classroom to use the cellphone.**

SPC SYLLABUS STATEMENTS

<https://www.southplainscollege.edu/syllabusstatements/>

COURSE OUTLINE AND OBJECTIVES

ETHICS AND PROFESSIONALISM

The student will be able to:

1. Identify and describe terminology related to ethical, professional, and moral standards of behavior within the healthcare environment. *(C5)*
2. Describe the importance of ethical conduct and its impact on the delivery of quality patient care. *(C5)*
3. Summarize and apply the principles outlined in the ARRT Standards of Ethics. *(F13)*
4. Describe the rights and protections afforded to patients through established patient bill of rights standards. *(F1)*
5. Demonstrate respectful, courteous, and appropriate interactions with patients, classmates, healthcare professionals, and other members of the healthcare team. *(F15; C9,11,14)*
6. Demonstrate a professional presence through appropriate appearance, attitude, behavior, and conduct in the classroom and clinical setting. *(F13,14)*
7. Demonstrate effective, respectful, and professional communication when interacting with patients, staff, and other members of the healthcare team. *(F6; C7,9,11)*
8. Apply appropriate professional judgment and problem-solving skills when responding to simulated situations encountered in the healthcare environment. *(F9; C11)*

HEALTH RECORDS AND CONFIDENTIALITY

The student will be able to:

1. Explain the importance of accurate and complete patient documentation and describe the appropriate process for recording patient information. *(F2; C5,6,15)*
2. Explain the ownership, accessibility, and appropriate use of patient health records within the healthcare setting. *(C2,7)*
3. Demonstrate appropriate responses to requests for patient information while maintaining privacy and following established policies and procedures. *(F1; C7)*
4. Explain the importance of accurately observing, reporting, and documenting patient and examination findings to support appropriate diagnosis, continuity of care, and accurate billing. *(F2; C6,7)*
5. Demonstrate compliance with HIPAA and professional standards for maintaining the confidentiality and privacy of patients, healthcare personnel, and institutional information. *(F17; C9,11)*

MEDICAL LAW

The student will be able to:

1. Define key legal concepts related to professional liability, negligence, standard of care, invasion of privacy, and unauthorized disclosure of confidential information. *(C5,7)*
2. Explain the legal responsibilities and potential consequences associated with professional practice, including liability, malpractice, professional negligence, carelessness, and other legal principles affecting radiographers.
3. Identify and explain the essential components required to establish a valid malpractice claim. *(F6,13; C11)*

4. Explain the legal and ethical significance of maintaining accurate, complete, and timely patient documentation in accordance with professional standards. *(C5,7)*
5. Describe the ARRT Practice Standards for radiographers and identify the key components that define professional practice. *(F13)*
6. Explain the scope and limitations of a radiographer's professional responsibilities as outlined in the ARRT Practice Standards. *(F16)*

HUMAN DIVERSITY

The student will be able to:

1. Define human diversity and discrimination and explain how they may influence interactions within the healthcare environment. *(C9,14; F15)*
2. Identify the various characteristics that contribute to human diversity among individuals and communities.
3. Recognize the personal and social traits that contribute to individual differences and diversity.
4. Identify the key components of cultural competence and their importance in providing respectful, effective patient care. *(C9,14; F15)*
5. Describe common values and beliefs associated with mainstream U.S. culture and recognize how they may influence healthcare interactions. *(C9,14; F15)*
6. Explain the importance of recognizing, respecting, and valuing human diversity in promoting equitable and patient-centered healthcare. *(F5,6,15; C9,14,15)*

PATIENT INTERACTIONS AND ASSESSMENT

The student will be able to:

1. Demonstrate effective communication strategies appropriate for patients across different age groups and developmental stages. *(F5,6; C5,6,7)*
2. Describe appropriate approaches for interacting with patients with varying needs, conditions, abilities, and communication styles. *(F5,6,9; C7,9)*
3. Explain the importance of obtaining an accurate and thorough patient history as part of the assessment and delivery of safe, appropriate patient care. *(F2,11,13; C5,6)*
4. Distinguish between subjective and objective patient information and recognize the appropriate use of each when assessing and documenting patient care. *(F1,7,12; C5,6)*
5. Describe compassionate and appropriate communication techniques for interacting with patients who are terminally ill and their families. *(F5,6; C5,9)*

PATIENT CONSENT

The student will be able to:

1. Define informed consent and explain its purpose in the provision of healthcare services. *(C7)*
2. Identify the essential components required for valid informed consent in the healthcare setting. *(C7; F8,9)*
3. Explain the standards and requirements for providing appropriate disclosure as part of the informed consent process. *(C7,11)*
4. Describe the purpose and appropriate use of consent forms in relation to specific radiographic examinations and procedures. *(F2,6; C7)*
5. Explain the legal significance of consent documentation and how completed consent forms may be utilized in legal proceedings. *(F2,6; C7)*

HISTORY TAKING / BASIC PATIENT CARE

The student will be able to:

1. Demonstrate safe and appropriate techniques for moving, transferring, and positioning patients while minimizing the risk of injury to both the patient and the radiographer. *(C11,14,15,18,19)*
2. Identify appropriate safety precautions when transporting patients between a hospital unit and the radiology department, including the safe return of the patient to their unit. *(C11,14,15,18,19)*
3. Demonstrate appropriate methods for assisting patients with disabilities when dressing and undressing for diagnostic radiographic examinations while maintaining dignity, privacy, and safety. *(C11,14,15,18,19)*
4. Provide clear and appropriate instructions to ambulatory patients regarding proper procedures for dressing and undressing before and after a radiographic examination. *(F6; C7,14)*
5. Identify potential causes of patient skin injury within the radiology environment and describe appropriate measures to prevent skin damage. *(F6,12,13; C9,11,14)*
6. Demonstrate safe techniques for moving and positioning patients with casts while protecting the affected extremity and preventing further injury. *(C11,14,15,18,19)*
7. Recognize signs and symptoms of impaired circulation associated with a cast and identify when further assessment or intervention is necessary. *(C5)*
8. Describe appropriate techniques for assisting patients with basic personal care needs, including the use of a bedpan, urinal, nasogastric (NG) tube, and emesis basin. *(C11,15,18,19)*
9. Explain and demonstrate safe, age-appropriate methods for immobilizing and restraining pediatric patients when necessary to ensure patient and staff safety. *(C11,14,15,18,19)*
10. Select, apply, and properly utilize immobilization devices to promote patient safety, comfort, and accurate positioning during radiographic procedures. *(F7, F8, F12)*

BIOMECHANICS AND ERGONOMICS

The student will be able to:

1. Explain the principles of body mechanics and ergonomics and their importance in promoting safe patient care and preventing injury.
2. Demonstrate proper body positioning and movement techniques when performing patient care activities and radiographic procedures.
3. Apply appropriate lifting, pushing, pulling, and transferring techniques to safely move patients and equipment while reducing the risk of injury.
4. Identify common ergonomic hazards in the radiology environment and describe strategies to minimize the risk of musculoskeletal injury.
5. Demonstrate proper use of assistive equipment and devices when moving, transferring, lifting, and positioning patients.
6. Apply principles of weight distribution, balance, leverage, and center of gravity when performing patient transfers and positioning procedures.
7. Explain the importance of proper workstation and equipment setup in maintaining safe and efficient work practices.
8. Demonstrate safe techniques for maintaining neutral body alignment during patient positioning, transfers, and other routine radiographic activities.
9. Identify factors that increase the risk of occupational injury and describe appropriate methods for injury prevention in the radiologic technology setting.
10. Demonstrate safe and efficient movement patterns during simulated patient-care situations, incorporating proper biomechanics and ergonomic principles.

INFECTION CONTROL

The student will be able to:

1. Identify and describe the major types of microorganisms that can cause infection and illness in patients and healthcare workers. *(F1,6; C7)*
2. Explain the factors and conditions that contribute to the development and transmission of infection within the healthcare environment. *(F1,6; C7)*
3. Describe the routes of transmission for HIV, hepatitis, and tuberculosis and identify appropriate measures used to prevent their spread in healthcare settings. *(F1,6; C7)*
4. Demonstrate and apply routine infection-control practices used by radiologic technologists to reduce the risk of infection during daily patient care and radiographic procedures. *(C18,19)*
5. Describe CDC-recommended isolation precautions and explain the appropriate protective measures associated with each level of isolation. *(C15,18,19)*
6. Explain the fundamental principles for safely caring for patients with communicable diseases while minimizing the risk of transmission to patients, healthcare personnel, and others. *(C18,19)*
7. Demonstrate proper procedures for entering and exiting an isolation room using appropriate isolation and infection-control techniques. *(C18,19)*
8. Define terminology related to medical asepsis and demonstrate proper hand hygiene techniques to reduce the transmission of microorganisms. *(F1; C7)*

MEDICAL & SURGICAL ASEPSIS

The student will be able to:

1. Differentiate between medical asepsis and surgical asepsis and explain the purpose of each in preventing the spread of microorganisms. *(C15)*
2. Identify the most common sources and methods of microorganism transmission within special procedures areas and operating room environments. *(C15)*
3. Distinguish between disinfection and sterilization and describe the appropriate application of each in the healthcare setting. *(C15)*
4. Identify and explain the fundamental principles and practices of surgical asepsis required to maintain a sterile environment. *(C15)*
5. Demonstrate and explain proper sterile technique, including: *(C19)*
 - a. Opening sterile packages while maintaining the integrity of the sterile contents.
 - b. Transferring sterile items to a sterile field without compromising sterility.
 - c. Properly donning a sterile gown and gloves using appropriate sterile technique.
 - d. Preparing a patient's skin appropriately before a sterile procedure.
 - e. Removing and replacing dressings while maintaining appropriate aseptic technique.

VITAL SIGNS

The student will be able to:

1. Identify the four primary vital signs and explain their significance in assessing a patient's condition. *(C5,6,7,11,18,19)*
2. Demonstrate accurate techniques for assessing and recording a patient's pulse rate. *(C5,6,7,11,15,18,19)*
3. Demonstrate appropriate methods for measuring and documenting respiratory rate. *(C5,6,7,11,18,19)*
4. Demonstrate accurate techniques for obtaining and recording blood pressure. *(C5,6,7,11,15,18,19)*
5. Demonstrate the proper technique for obtaining and interpreting a patient's temperature using a clinical thermometer. *(C5,6,7,11,15,18,19)*
6. Identify normal adult ranges for temperature, pulse, respiration, and blood pressure and recognize values that may indicate a potential abnormality. *(C5,6,7,11)*
7. Identify common types of oxygen-delivery equipment used in the healthcare setting. *(C15,18,19)*

8. Explain the safety precautions and responsibilities of the radiographer when caring for a patient receiving oxygen therapy. *(C19)*

MEDICAL EMERGENCIES

The student will be able to:

1. Recognize the signs and symptoms of common medical emergencies and describe the appropriate immediate actions and interventions within the radiographer's scope of practice, including: *(F10; C5,7,9,11,15,18,19)*
 - a. Shock
 - b. Anaphylactic reactions
 - c. Cerebrovascular accident (CVA)
 - d. Respiratory distress, respiratory failure, and airway obstruction
 - e. Cardiac arrest or cardiac failure
 - f. Syncope, fainting, and falls
 - g. Seizures
 - h. Hypoglycemia
2. Describe the appropriate procedures for reporting a fire and explain the radiographer's role and responsibilities during an internal emergency or disaster. *(C5; F8,9,13)*
3. Explain the potential signs and symptoms of adverse reactions to contrast media and describe the appropriate response and emergency procedures for managing these reactions. *(C5,7,9,15,18,19)*
4. Explain the purpose and importance of the emergency cart and identify the equipment and supplies commonly maintained for use during medical emergencies. *(F10; C3,5,6,19)*

SPECIAL PROBLEMS

The student will be able to:

1. Describe appropriate patient-care considerations and safety measures when performing imaging procedures on infants and pediatric patients, taking into account their developmental, physical, and emotional needs. *(C11,14,15,18,19)*
2. Identify the unique challenges associated with imaging geriatric patients and describe appropriate care techniques to promote their safety, comfort, and dignity. *(C11,14,15,18,19)*
3. Apply effective communication strategies when interacting with patients who have varying physical, emotional, cognitive, or communication needs.
4. Identify appropriate safety precautions and patient-care measures for individuals with the following conditions or injuries: *(C11,14,15,18,19)*
 - a. Head injuries
 - b. Facial injuries
 - c. Suspected spinal cord injuries
 - d. Known or suspected fractures
 - e. Confusion, agitation, behavioral concerns, or potentially aggressive behavior
5. Identify common tubes, catheters, and vascular access devices encountered during radiographic procedures and explain the precautions necessary to protect these devices and maintain patient safety, including: *(C11,14,15,18,19)*
 - a. Intravenous (IV) access lines
 - b. Medical tubes and drainage devices
 - c. Nasogastric (NG) and gastric (G-tubes)
 - d. Enteral feeding tubes
 - e. Indwelling chest tubes
 - f. Urinary catheters
 - g. Other drainage tubes and systems

RADIOLOGIC SCIENCE ACCREDITATION, CREDENTIALING AND PROFESSIONAL ORGANIZATIONS

The student will be able to:

1. Define and distinguish between key terms related to professional recognition and regulation, including: *(C7)*
 - a. Accreditation
 - b. Credentialing
 - c. Certification
 - d. Licensure
 - e. Registration
2. Identify major credentialing, certification, licensing, and accreditation agencies involved in healthcare and radiologic technology at the local, state, and national levels, and describe their respective roles and responsibilities. *(C5,15)*
3. Identify professional organizations associated with the radiologic technology profession and recognize their contributions to the field. *(C15)*
4. Explain the purpose, roles, and activities of professional organizations and their impact on the development and advancement of radiologic technology. *(C15)*
5. Explain the importance of continuing education and professional development in maintaining competency, improving patient care, and supporting lifelong growth within the radiologic technology profession. *(C9)*

CRITICAL THINKING SKILLS & PROBLEM-SOLVING STRATEGIES

The student will be able to:

1. Explain the importance of critical thinking and effective problem-solving in the practice of radiologic technology and the delivery of safe, quality patient care. *(F5,6,7; C5,6,7)*
2. Describe the fundamental steps involved in identifying, evaluating, and resolving problems in the healthcare environment. *(F7,8,9; C5,6,7)*
3. Evaluate clinical situations, determine appropriate courses of action, and apply sound judgment when critical thinking and problem-solving skills are required.
4. Develop and apply critical thinking abilities necessary for effective decision-making and professional practice as a radiologic technologist. *(F7,8,9; C5,6,7)*

Introduction to Clinical Education

The student will be able to:

1. Define clinical education terminology and explain the purpose and role of clinical education in preparing students for professional practice. *(F8,9,11; C5,6,7)*
2. Explain the concept of chain of command and describe its appropriate use within the clinical education environment. *(F8,12; C9)*
3. Explain the importance of following established clinical education policies and procedures and identify the potential consequences of failing to meet program or clinical requirements. *(F12,13; C9,12)*
4. Describe methods used to evaluate student performance in the clinical setting, including assessment of professional behaviors, cognitive knowledge, and psychomotor skills. *(F8,12; C7,9)*
5. Identify and explain policies and procedures designed to promote safety for patients, radiologic technology personnel, students, healthcare colleagues, and members of the public, including: *(C15,16)*
 - a. Evaluating radiographic equipment and radiation shielding to ensure compliance with applicable federal and state safety requirements.
 - b. Applying fundamental radiation protection principles to minimize unnecessary radiation exposure.
 - c. Following appropriate infection-control practices to reduce the risk of disease transmission.

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.

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 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

C-1 **TIME** - Selects goal - 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 AND 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 a member 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 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 Corrects 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.