

Heart of Georgia Technical College
RADIOLOGIC TECHNOLOGY

Quarter: Spring 2009

Program Director/ Instructor:
Stephanie Morris, BS RT(R)(M)(CT)
Denise Brinson, RT(R)(CT)(MR)
Office Hours: M-F 8:30-3:30 by appt.

Course Title: Clinical Radiography III

Course Number: RAD 134

Office Location: Room 224X

Credit Hours: 7

Phone: 478-274-7773 office
912-326-3662 cell

Class location: Assigned Clinical Sites

Class Time: Monday and Wednesday 8am-4pm

Course Description

Provides students with continued hospital setting work experience. Students improve skills in executing procedures introduced in Radiographic Procedures and practiced in previous clinicals. Topics include: equipment utilization; exposure techniques; participation in and/or observation of gastrointestinal (GI), genitourinary (GU), and biliary system procedures; and participation in and/or observation of cranial and facial radiography. Execution of radiographic procedures will be conducted under direct and indirect supervision.

<u>Competency Areas</u>	<u>Hours</u>	
	Class	D. Lab
Equipment Utilization	0	0
Exposure Techniques	0	0
Participation in and/or Observation of Gastrointestinal (GI), Genitourinary (GU), and Biliary System Procedures	P. Lab/O.B.I.	21
Participation in and/or Observation of Cranial and Facial Radiography	Credit	7

Prerequisite: RAD 101, RAD 133

Corequisite:

Course Guide

Competency	After completing this section, the student will be able to:	Hours		
		Class	D.Lab	P.Lab/O.B.I.
EQUIPMENT UTILIZATION		0	0	45
Equipment inspection	Perform safety checks of radiographic equipment and accessories (e.g., lead aprons and gloves, collimator accuracy).			
	Recognize malfunctions in the radiographic unit (including table, tube, and accessories).			
	Note difficulties experienced which might assist in locating the cause of the malfunction.			
	Report malfunctions in the radiographic unit (including table, tube, and accessories).			
	Inspect and clean screens and cassettes regularly to identify and remove causes of artifacts.			
	Perform "start up" and/or "shutdown" procedures on the automatic processor (e.g., adjust water, removal and cleaning of "cross-over" bars).			

Competency	After completing this section, the student will be able to:	Hours		
		Class	D.Lab	P.Lab/ O.B.I.
	Recognize malfunctions in the automatic processor.			
	Note difficulties experienced which might assist in locating the cause of the malfunction.			
	Report malfunctions in the automatic processor.			
	Monitor the performance of the automatic processor using sensitometry.			
	Clean, wash, disinfect, and/or sterilize facilities and equipment (e.g., cassettes, tabletops) and dispose of contaminated items in preparation for the next examination.			
X-ray tube warm-up	Warm-up the x-ray tube to achieve proper operating conditions by following the manufacturer's prescribed sequence of steps.			
EXPOSURE TECHNIQUES		0	0	55
Film storage and processing	Store film/cassette in a manner which will reduce the possibility of accidentally exposing or re-exposing film.			
	Imprint proper identification information onto film using either the radiographic, photographic, or light imprinter method.			
	Process exposed film by unloading the cassette and feeding it into the automatic processor.			
	Reload cassettes by selecting film of proper size and type.			
	Record required information on the request form following performance of examination (may include technologist identification, patient data, billing codes, number and size of films, technique, or other information as required by department protocol).			
	Combine radiographic requisition and radiographs for interpretation and filing.			
Technique development	Determine appropriate exposure factors using calipers, technique charts, and tube rating charts for guidance.			
	Modify exposure factors for circumstances such as voluntary and involuntary motion, plaster casts, pathological conditions, and/or patient's inability to cooperate.			
	Restrict beam to limit exposure to area of interest and to improve image quality.			
	Determine appropriate exposure factors using calipers, technique charts, and tube rating charts for guidance.			
	Modify exposure factors for circumstances such as voluntary and involuntary motion, plaster casts, pathological conditions, and/or patient's inability to cooperate.			
	Restrict beam to limit exposure to area of interest and to improve image quality.			
	Set kVp, mA, and time or automated exposure			

Competency	After completing this section, the student will be able to:	Hours		
		Class	D.Lab	P.Lab/ O.B.I.
	system to achieve optimum image quality, safe operating conditions, and to minimize radiation exposure.			
Technique evaluation	Evaluate radiographs using a view box to make certain that radiographs contain proper identification and are of diagnostic quality.			
	Determine corrective measures if radiograph is not of diagnostic quality.			
PARTICIPATION IN AND/OR OBSERVATION OF GASTROINTESTINAL (GI), GENITOURINARY (GU), AND BILIARY SYSTEM PROCEDURES		0	0	55
Gastrointestinal system	Observe and/or participate in patient preparation procedures for radiographic/fluoroscopic examinations of the gastrointestinal system.			
	Observe and/or participate in the positioning of patients undergoing radiographic/fluoroscopic procedures involving the gastrointestinal system.			
	Observe and/or participate in routine radiographic/fluoroscopic procedures of the gastrointestinal system.			
	Evaluate the quality of radiographs and photospots of the gastrointestinal system in terms of positioning accuracy, image quality, and anatomical structures revealed.			
	Identify the special considerations for gastrointestinal procedures relating to the avoidance of repeated procedures.			
	Observe and/or participate in the identification of and care for acute reactions to contrast media.			
Genitourinary procedures	Participate in and/or observe patient preparation procedures for radiographic/fluoroscopic examinations of the genitourinary system.			
	Observe and/or participate in the positioning of patients undergoing radiographic/fluoroscopic procedures involving the genitourinary system.			
	Observe and/or participate in routine radiographic/fluoroscopic procedures involving the genitourinary system.			
	Evaluate the quality of radiographs and photospots of the genitourinary system in terms of positioning accuracy, image quality, and anatomical structures revealed.			
	Identify the special considerations for genitourinary procedures relating to the avoidance of repeated procedures.			
	Observe and/or participate in the identification of and care for acute reactions to contrast media.			
Biliary system	Observe and or participate in patient preparation procedures for radiographic/fluoroscopic examinations of the biliary system.			
	Observe and/or participate in the positioning of patients undergoing radiographic/fluoroscopic			

Competency	After completing this section, the student will be able to:	Hours		
		Class	D.Lab	P.Lab/ O.B.I.
	procedures involving the biliary system.			
	Observe and/or participate in routine radiographic/fluoroscopic procedures involving the biliary system.			
	Evaluate the quality of radiographs and photospots of the biliary system in terms of positioning accuracy, image quality, and anatomical structures revealed.			
	Identify the special considerations for biliary system procedures relating to the avoidance of repeated procedures.			
	Observe and/or participate in the identification of and care for acute reactions to contrast media.			
PARTICIPATION IN AND/OR OBSERVATION OF CRANIAL AND FACIAL RADIOGRAPHY		0	0	55
Cranial procedures	Observe and/or participate in the positioning of patients undergoing routine radiographic procedures involving the cranium.			
	Observe and/or participate in routine radiographic procedures involving cranial procedures.			
	Observe and/or participate in the evaluation of cranial radiographs in terms of positioning accuracy, image quality, and anatomical structures visualized.			
Facial procedures	Observe and/or participate in the positioning of patients undergoing routine radiographic procedures involving facial structures.			
	Observe and/or participate in routine radiographic procedures involving facial structures.			
	Observe and/or participate in the evaluation of facial radiographs in terms of positioning accuracy, image quality, and anatomical structures visualized.			
Competency completion evaluation	Evaluate the number, types, and degree to which clinical competencies have been completed and mastered.			
Competency completion planning	Develop a plan in conjunction with on-site clinical supervisors and technical institute faculty to outline future completion and mastery of clinical competencies contained in this course.			
Continuing education/independent study	Identify an area of concern or interest related to the content of this clinical experience, and research, review a publication, or otherwise explore this topic to personal satisfaction.			

REQUIRED TEXT:

1. HCTC Student Handbook and Clinical Manual
2. *Textbook of Radiologic Positioning and Related Anatomy, Bontrager, 6th Edition*

3. Bontrager's Pocket Atlas: Handbook of Radiographic Positioning and Techniques [Kenneth L. Bontrager](#)

Suggested Resources

- Adler, Arlene and Carlton, Richard. *Introduction to Radiography and Patient Care*. Philadelphia: W. B. Saunders.
- Ballinger, P. W. (2003). *Merrill's Atlas of Radiographic Positions and Radiographic Procedures* (10th ed). St. Louis: Mosby.
- Ehrlich, R. A., et al. (2004). *Patient Care in Radiography* (6th ed). St. Louis: Mosby. Note: Greathouse, Joanne. *Delmar's Radiographic Positioning and Procedures*. Albany, NY: Delmar.
- Torres, L .S. (2003). *Basic Medical Techniques and Patient Care in Imaging Technology* (6th ed). Philadelphia: Lippincott.

Assigned Clinical Sites & Times

Assigned clinical sites have been pre-posted. Times are given by the clinical sites. Be at the clinic site at 8:00 am on your first day. The only exception to this is Fairview Park Hospital. Times for this site is routinely 7a-3p. The Clinical Instructor at that site will then assign your time for the remainder of the quarter (see options above). On the 1st day of the clinical rotation, a Clinical Site Facility and Time Assignment form must be completed and faxed to the Lead Clinical Instructor at 478-275-6642. **For EACH fax turned in without a cover sheet, there will be a 5-point deduction on the "NOTEBOOK CHECK" portion of your clinical grade.** Turn in the original on the next scheduled class day. **The last day of clinic is Thursday, June 18th.**

EVALUATION AND GRADING:

Competency evaluations	20%	*minimum of 8 competencies are due
Clinical evaluations	20%	
Clinical objectives	20%	
Notebook Check	10%	
Attendance	30%	

COMPETENCY EVALUATIONS

1. Each quarter, a minimum number of competency examinations (8) are to be completed by the student in the clinical setting. The anatomy section of each clinical competency exam will require a question and answer session between the student and the Clinical Instructor, or Program Chair.
2. ***If the minimum number of competency exams is not completed by the end of the quarter, a grade of "zero" will be given for competency evaluations unless proof of special circumstances can be documented. (A "Failure to meet minimum clinical requirement affidavit" must be submitted).***
3. **Students may include any of the competencies listed on the competency list provided.** However, the student should keep in mind that there are specific ARRT required competencies that must be completed *before* the student can sit for the ARRT Registry Examination.
4. Original copies of all competencies are to be turned in to the instructor on the assigned dates. Clinical Competencies must be completed in their **ENTIREITY** (including date, RT signature, all yes or no responses marked, and exposure factors at end of competency) to receive credit for the competency exam. **NO REPRODUCED COPIES WILL BE ACCEPTED.**
5. Must have no more than 3 "NO" responses on the competency performed and no more than 3 "NO" responses on the image evaluation portion of the competency. The RT witnessing the competency will grade on a scale of 1-100 based on the student's performance. A passing score is 85% or better. If any view on any exam is repeated then the competency is not valid.
6. Falsification of competency evaluations will result in the student's suspension and /or dismissal from the program. (CLINICAL MANUAL, pg. 56)

7. COMPETENCIES WILL NOT BE ACCEPTED FOR PROCEDURES NOT PREVIOUSLY COVERED IN CLASS.
8. A “competency exam” is not only a requirement for graduation but **proof** of your ability as a technologist. The Program Director or the Lead Clinical Instructor will conduct simulation exams on previously acquired competencies from each student to assess retention of positioning and anatomical information from the student. If mastery of the exam is not evident, the “COMP” (competency obtained from clinical site) may be revoked from the competency notebook and the student will be required to prove skill/knowledge on another LIVE patient.

See page 58-59 in the Clinical Manual for Completion of Competency Form requirement. Successful completion of the evaluation means that the student is competent to perform the examination with Indirect supervision. This is a pass or fail competency.

Completed competencies, once placed in the COMPETENCY NOTEBOOK located in the Lead Clinical Instructor’s office, are not to be removed. They are official school records.

CLINICAL EVALUATIONS:

The assigned clinical site will evaluate each student’s progress at various times each quarter. This evaluation includes analyzing a student’s attitudes and behavior while at the clinical site. Professionalism, hygiene, and communication skills are a few of the categories evaluated during this process. Depending on the clinical rotation, it is possible for a student to be evaluated up to five times per quarter. **THE CLINICAL EVALUATIONS ARE A CRUCIAL PART OF THE STUDENT’S CLINICAL EXPERIENCE AND WILL BE INCLUDED IN THE FINAL GRADING ANALYSIS.**

The First Year Clinical Evaluation Grading is a possible 30 points. The number of points earned divided by the possible points . Example : for 25 points earned would be a grade of 83. The Lead Clinical Instructor will accept up to three evaluations at mid-quarter to assess student strengths and weaknesses. Only one will be done at the end of the quarter. The Clinical Objectives grade will be calculated by the Random competency re-checks averaged with the highest score on the mid-quarter evaluations provided by the clinical sites. The end of quarter evaluation will be the Clinical Evaluation percentage of the RAD 134 grade.

CLINICAL OBJECTIVES:

Clinical objectives involve the evaluation and grading of a student’s technical abilities and the skills that have been acquired throughout the radiography program. These objectives will vary from quarter to quarter, with a higher level of expectation demanded from students as they progress and gain clinical knowledge and skills. This grade will be calculated from the mid-quarter evaluation grade (highest of up to 3 EVALS) and on-site simulation re-checks from competencies recently completed. These are random re-checks and they will be graded on the “In-Class Lab Evaluation” form.

NOTEBOOK CHECKS:

The HGTC Clinical Manual, the student pocket guide, and the competency manual are to accompany all radiography students to their respective clinical sites. All information contained within these three manuals is to be organized and presentable. The updated Daily Record of Procedures, updated Attendance Form and any completed competencies (not already turned in), must be available to the HGTC faculty member upon request for review. If the student’s notebook is not updated at the time/day of the notebook check, **15 points will be deducted from the grade.** (Student’s original completed competencies are to remain in the Lead Clinical Instructor’s office. These documents are official school records and once placed in the notebook are not to be removed.) Each quarter students are required to get one (1) technique factor for certain exams. They are to be posted in the student’s positioning handbook. **AEC TECHNIQUES ARE NOT ACCEPTABLE. mA, kVp, time, film size , distance, part thickness and use of bucky or table top must be documented to get credit for this assignment.** The “Technique factor” assignment” is due on

Thursday, June 4th. They may be turned in at any time before this date. **10 points will be deducted from the notebook portion of the grade if all factors requested are not completed. The exams for this quarter are:

1. **Thoracic Spine-AP, Lateral, Swimmers**
2. **Forearm -AP and Lateral**
3. **PA Chest and Lat Chest**
4. **AP KUB**
5. **AP KUB post gastrographin via rectal or oral**
6. **BE afterfilms- AP, Oblique, Sigmoid, lateral rectum**

ATTENDANCE:(clinical manual, p.20-21)

1. Attendance is crucial to the clinical portion of a student's learning experience. All students are expected to be present at their various clinical sites, and they are expected to arrive on time. If, at any time, a student is unable to meet these expectations, the student MUST notify HGTC faculty and the clinical site **AT LEAST ONE HOUR** before the scheduled time of arrival to avoid a GRADE II violation. (Clinical Manual, p. 19) **Mrs. Brinson should be notified first at 478-274-7773. If for any reason there is no answer, leave a voice message and also call Mrs. Morris office at 478-274-7882 and leave a voice message.**
2. More than 2 absences will result in a withdrawal from the clinical site (This is 10% of the scheduled class time). Any appeals for withdrawal must be done within 48 Hours of notification of withdrawal. You will not be permitted to return to your clinical site without providing a written notice of appeal, allowing you to ATTEND the class. Any time missed during this process will result in make-up time accumulated. If you return to clinical without providing the appropriate documentation to the clinical instructor, you will be counted as ABSENT for that day.
3. Excessive tardiness (defined as 3 times tardy) will result in a GRADE II violation. **Two (2)** up to 5 minutes tardies are allowed.
4. A student reporting late to a clinical site (15 minutes), will result in a "fault". Three (3) faults will result in the requirement of a additional 8-hour clinical day at the same clinical facility.
5. **EARLY LEAVES:** As stated in your HGTC 04/05 Catalog, p. 42, any student who misses more than one third, (33%) of a scheduled class session will be counted absent for the entire class session. (That's 2.5 hours of the class, be it arriving late, or leaving early). A student arriving 1 minute to 2.5 hours late or leaving 1 minute to 2.5 hours early will have to complete 2.5 hours of clinical time. A student in leaving early in excess of 2.5 hours will be required to make up a FULL 8-hour day.
6. It is your responsibility to make your clinical instructor or supervisor aware of you arrival or departure to and from the clinical in writing. A technologist must sign your time sheet immediately upon arrival. (ONLY an RT can sign your sign-in sheet) In the event of an early leave or a tardy, you will not be guaranteed credit for your presence at clinical unless you get a verified signature on your time sheet from a **clinical instructor or supervisor**. *If for any reason no one is available to sign your attendance log, call Mrs. Brinson at 274-7773 AND call 274-7882 from the clinical site's phone so that we may verify your time. **IF A VOICE MAIL OPTION IS GIVEN, DO NOT HANG UP. LEAVE A VOICE MAIL AND IT WILL RECORD YOUR TIME CALLING.***
7. **VERIFIABLE SIGNATURES**
The HGTC time sheets are official records of your attendance. Therefore, a signature (initials) of a technologist must be by your "time in" and "time out" slots. A line can not be drawn thru it or down the page representing a previous signature. If there is no signature, this will represent an absence and credit will not be given for that day. THE TECHNOLOGIST MUST DOCUMENT THE TIME AND THEIR SIGNATURE. THE STUDENT'S HANDWRITING SHOULD NOT BE ON THE TIME SHEET.
7. Time sheets must be faxed on the last day of each clinical week to Mrs. Brinson at 478-275-6642. **NO EXCEPTIONS**. A 1 pt. per day deduction

from your **final attendance grade** will be given for late time sheets.
Remember to always use a cover sheet.

****A FORGERY OR FALSE DOCUMENTATION OF HGTC DOCUMENTS IS PROHIBITED AND IMMEDIATE DISMISSAL FROM THE CLINICAL SITE WILL RESULT****

PERFECT ATTENDANCE: If a student has obtained perfect attendance (no absence, not more than one 15 minute or less tardy, not more than one less than 2.5 hour early leave) throughout the quarter, that student will earn the LAST DAY of the quarter off.

MAKE-UP TIME (CLINICAL MANUAL,P.21)

1. Make-up time is to be done at the END OF THE QUARTER ONLY or on a student holiday as time/space allows. Making up time on a student holiday will be at the discretion of the instructor's availability to be on campus.
2. A clinical absence make-up sheet must be completed and turned in to the Program Director or Lead Clinical Instructor PRIOR to credit being given for the time.

*****Failure to complete all assigned clinical time within 2 weeks after the end of the quarter will result in an "Incomplete" for this class. The "I" will remain until all make-up time is completed. As per page 21 in the clinical manual: If the clinical time is not made up within the next quarter after the end of the grading period, the "Incomplete" will be converted to an "F" (failure) and the student will be required to repeat the clinical class and will not be allowed to proceed to the next level.*****

*****FAILURE TO COMPLETE ALL ASSIGNED CLINICAL TIME WITHIN 2 WEEKS AFTER THE END OF THE QUARTER WILL RESULT IN A FAILING GRADE FOR THIS CLASS*****

Grading for clinical attendance is as follows:

100% (perfect attendance)	=100
Less than 10% absences	=90
10% absences	=80
Greater than 10% absences	=60

Patient or management compliments that are submitted in writing to the program faculty will receive up to ½ day clinical credit per quarter.

NO CALL, NO SHOW

A no call, no show to clinical will result in a work ethics grade of "0", and a GRADE II violation.

GRADE I and GRADE II INCIDENTS (clinical manual, p.19-20)

****One (1) Grade I incident will result in immediate dismissal from the clinical site for the remainder of the quarter.**

****Two (2) Grade II incidents will result in immediate dismissal from the clinical setting for the remainder of the quarter.**

These violations are per program length. If dismissed from clinical setting, the student will be dismissed from the program. You can not complete the program without fully completing the clinical requirements.

Please note that there is NO APPEAL PROCESS for dismissal from the clinical site if requested by the clinical facility, as the medical facilities are not a direct part of HGTC, however, you will be deficient in the number of assigned clinical hours and competencies required to pass the class. This may lead to your failing the class. **The clinical facilities are not part of HGTC, therefore, an HGTC withdrawal appeal will not apply.**

YOU MUST PASS THIS CLINICAL CLASS TO MOVE FORWARD TO THE NEXT CLINICAL CLASS

RADIATION BADGE AND MONITORING (Clinical Manual, p. 26 and 48)

1. Students are required to wear their Radiation Badge to each day of clinical class. Failure to wear a Radiation Badge on any given day will result in a GRADE II (#8) violation.
2. The monitor should be brought to HGTC during the FIRST FIVE DAYS of the month to be exchanged. Students who turn in the badge AFTER the 5th of the month will be required to submit a ONE-PAGE, single-spaced, 10 font, typed report on radiation safety due on or before the 10th of the month. Title page and bibliography must be included. Body of paper is to start on page 2, one inch from the top margin. Failure to turn in the report, ACCORDING TO SPECIFICATIONS, will result in a 15- point deduction per day in the “clinical objectives” category of your grade.
3. Students are required to document and submit a written report to the clinical coordinator when a situation arises that might affect the dosimeter read-out. (EX. The dosimeter being “washed”)
4. **At the end of the quarter, dosimeters are to be returned within 24 hours of clinical completion. Any late dosimeters will result in a 3-point per day reduction of the students final grade. The student’s final grade will reflect an I (incomplete) until badge is turned in.**

LOST OR DAMAGED MONITORING DEVICES

Lost or damaged monitoring devices MUST BE REPORTED TO HGTC FACULTY IMMEDIATELY. The cost of replacement of the badge (usually \$25.00-\$35.00) is the student’s responsibility. Failure to report a lost or damaged badge to the clinical instructor, as well as, the HGTC faculty will result in a GRADE II (#8) violation.

PROFESSIONAL ATTIRE

Junior students are to wear the Red & White HGTC Radiology uniform shirt, along with white scrub pants. Persons wearing “bright colorful” under garments are hereby warned that this attire may not be desirable at the clinical setting. *Persons with long (usually shoulder length or below) hair will wear there hair in such a way that : “if bending forward, the hair does not fall beyond the cheek bone.” Ladies may wear white shoes with minimal color and gentlemen may wear dark shoes.*

CLINICAL SITE POLICIES AND PROCEDURES

***Persons not adhering to ANY of the policies/procedures of the clinical site, and who are subsequently dismissed from the clinical site for that day will be marked as **absent for a full day**.

CONSULTATION/COUNSELING/ASSISTANCE:

Program faculty will be available if, at any time, a student wishes to discuss his/her clinical progress or any concerns regarding their progress in the radiology program.

GRADING SYSTEM: The following grading system is used:

Grade			Points Earned
A	=	(90-100)Excellent	4.0
B	=	(80-89)Good	3.0
C	=	(70-79) Satisfactory	2.0
D	=	(60-69) Poor	1.0
F	=	(59 and below) Failing	0.0
I	=	Incomplete	
IPS	=	In Progress-Satisfactory	
IPU	=	In Progress-Unsatisfactory	
S	=	Satisfactory-Passing Developmental Studies	
U	=	Unsatisfactory-Failing Developmental Studies	
W	=	Withdrew up to midterm	
AU	=	Audit	
EX	=	Credit by Competency Exemption Examination	

TR = Transfer Credit

A student may elect to appeal the assignment of the grade of “F” due to a non-academic hardship. To appeal the grade of “F”, a student should submit a written appeal to the Vice President of Student Services within 7 days of the grade being assigned.

Due to the uniqueness of the Radiologic Technology program and responsibilities of the radiographer, a high level of academic and technical competence is required of all students in the program. Therefore, the student must achieve a final grade of “C” to meet the minimal academic standards in RAD 134. Therefore, a final average of 69 or below will result in an “F”.

- ✓ Dosimeters are due on the specified due dates each quarter. Any late dosimeters, after the first occurrence, will result in a 3-point per day reduction of the student’s final grade.

WORK ETHICS: HGTC believes it is extremely important to identify, evaluate, and encourage good work habits as an integral part of our instructional program. We have systems to evaluate “work ethics” in each instructional program. The components evaluated are attendance, appearance, professionalism, attitude, productivity, cooperation, communication, organizational skills, teamwork, and respect. These “work ethics” components are evaluated in each credit hour course, but are not part of the grade point average of the student. They are placed on the student’s permanent record and transcript as an evaluation tool for job skills and employability. Work ethics will be evaluated and discussed with each student at midterm and at the end of the quarter.

TCSG GUARANTEE/WARRANTY STATEMENT: The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

ACADEMIC COUNSELING RELATED TO CLINICAL PERFORMANCE:

Students will be scheduled for clinical counseling sessions with program faculty at least once during the quarter. The session will be scheduled at mid-quarter. The session is designed to keep the student informed of his/her clinical academic standing in terms of strengths, weaknesses, and progress in the course. Documentation of the counseling session will be made on a “Mid-Quarter Awareness Form” and will require the student’s signature.

*DIRECT SUPERVISION-Student supervision under the following parameters:

- A qualified radiographer reviews the procedure in relation to the student’s achievement;
- A qualified radiographer evaluated the condition of the patient in relation to the student’s knowledge;
- A qualified radiographer is present during the conduct of the procedure;
- A qualified radiographer reviews and approves the procedure.

**INDIRECT SUPERVISION-For radiography, that supervision provided by a qualified radiographer immediately available to assist students regardless of the level of student achievement. Immediately available is interpreted as the presence of a qualified radiographer adjacent to the room or location where a radiographic procedure is being performed. The availability applies to all areas where ionizing radiation equipment is in use.

STUDENT SUPERVISION(clinical manual, p. 49)

Students are to avoid supervising OTHER STUDENTS. This is a learning experience for each individual and individuals do learn differently. Respect the rights of your fellow students. The staff and supervising technologists are there to answer questions and provide proper supervision.

