

## RADR 2366 RADIOGRAPHIC PRACTICUM IV

### CLINICAL COURSE OBJECTIVES

This course is a continuation of previous clinical experiences. **The student is expected to maintain proficiency in the previously learned clinical objectives and continue to practice competencies on typical and atypical patients.** The student is assigned to the clinical facility for 24 hours per week to develop speed, high standards of quality, and affective behaviors consistent with a professional radiographer. Self-reliance habits are emphasized.

Students will be scheduled on various **specialty rotations**. The student will complete 48 hours of rotations on evenings and weekends in accordance with current program policy. During this semester students will be required to complete rotations through other affiliates.

The students are encouraged to perform procedures, in which they have achieved competency; emphasis is placed on self reliance, speed, and development of independent judgment. **The students are encouraged to work with minimal or indirect supervision.**

#### Text and Materials –

- Bontrager's Handbook of Radiographic Positioning and Techniques, 5<sup>th</sup> edition
  - ISBN 9780323056304
- A computer with internet access
- Computers are available for student use in the :
  - Learning Lab TC 112
  - Media Center MPC 155

#### COURSE GOALS:

1. The student will demonstrate positioning skills, knowledge of protocols, exposure factors, body systems, communication skills and radiation protection while performing procedures on atypical patients.
2. The student will show competence in:
  - a. adding annotations to images
  - b. image rotation and flipping
3. The student will demonstrate an advanced understanding when manipulating digital images (window and level) on a monitor.
4. The student will begin employing problem-solving skills by selecting and adjusting technical factors while understanding their effects on data acquisition and dynamic range.
5. The student will demonstrate the ability to perform radiographic examinations on trauma, difficult, or uncooperative patients. They will demonstrate creative thinking ability and problem solving skills by evaluating the patient and making decisions to...
  - a. use immobilization devices and positioning aids when needed
  - b. adjust technical factors to eliminate involuntary motion or to compensate for pathological conditions or injury
  - c. adjust radiographic equipment and employ alternate positioning methods when there are restrictions to movement of patient, anatomical part, or space limitations
  - d. use proper safety techniques and radiation principles despite the difficulties encountered with

such patients

6. The student will perform portable and surgical radiography under the supervision of a technologist. They will demonstrate creative thinking ability, problem solving skills and proper decision making by evaluating the patient and...
  - a. utilizing knowledge and expertise in adapting positioning skills for bedside and surgical radiography
  - b. adjusting technical factors within the limitations of the mobile equipment for body habitus, pathology, presence of a wet or dry cast, etc.
  - c. exhibit knowledge in radiation protection by using proper collimation, distance, and protective shielding for both patient and technologist
  - d. demonstrating proper aseptic technique when preparing mobile equipment for a sterile surgical procedure or performing an examination on an isolation patient
7. The student will rotate through special assignments. While assigned to the specialty areas the students will be able to:
  - a. show punctuality and availability for patient examinations
  - b. present a professional appearance
  - c. demonstrate an interest in the area of rotation
  - d. participate as much as is allowed in the imaging process
  - e. effectively communicate/interact with others
  - f. demonstrate a basic understanding of the examinations performed in the specialty area
8. While on off-hour rotations the students will demonstrate with **indirect supervision** the following skills:
  - a. successfully performing radiographs on difficult patients, i.e. E.R., trauma, uncooperative patients, etc.
  - b. making independent judgments in the areas of technique, positioning, restraining devices, and image quality using reasoning skills
  - c. exhibit increasing self-esteem and self-management skills.
9. The student will be able to visualize the exam, organize information, and pre-set the examination room by selecting proper equipment and materials that may be needed prior to admitting the patient to the examination room.
10. The student will work as a team with first year radiology students on Fridays. They should demonstrate leadership skills and assist in orientating the new students into the field of radiology.
11. The student will serve a diverse population.
12. The student will be able to identify anatomy, as well as common pathologic or abnormal conditions on a radiograph. This will be demonstrated as part of the task analysis and film critique lessons.
13. The student should be able to troubleshoot errors, correct problems, and maintain equipment.
14. Four (4) written examinations will be administered by the clinical instructor. These will include two (2) film critique assignments, one (1) syllabus quiz on Blackboard, and one (1) additional test at the discretion of the clinical instructor.

## **COURSE OBJECTIVES:**

By the end of the semester each student will:

1. Successfully complete six (6) **Task Analyses** from the categories listed below.
  - a. Difficult or atypical patient (Trauma, Multiple exams, Lumbar puncture)
  - b. Portable (Chest, Abdomen, or extremity)
  - c. Head (Skull, Sinus, Facial, Mandible, CT Brain)
  - d. Spine
  - e. Contrast Studies (BE, IVU, Retrograde Pyelogram, Arthrogram)
  - f. Pediatric or geriatric (Chest, Extremity, or Portable)
  - g. C-arm (Only after a C-arm Competency)

This is a list of exams that qualify for this category. It is not comprehensive and will be determined at the discretion of the clinical instructor.

All task analyses are at the discretion of your clinical instructor; they may choose the examinations you are to perform. Part of the task analysis process is to monitor and correct performance if repeat radiographs are required.

**A student may be given the opportunity to repeat 1 task analysis during the semester under the following conditions:**

- Repeating the task analysis will change the student's letter grade for the semester
  - Repeating the task analysis will not prohibit another student from completing the required Task Analysis.
2. Receive at least two (2) **Clinical Behavior Reports**. They will demonstrate affective behaviors needed by a professional including: integrity, time management, sociability, and responsibility.
  3. Demonstrate critical thinking, problem solving and cognitive skills on four (4) written tests. Students will have at least two (2) film critique assignments, a syllabus quiz assigned on Blackboard, and one (1) other test at the discretion of the clinical instructor.
  4. Rotate through **Special Assignments**. At least one task analysis should be accomplished during the special assignment.

## **GRADING SYSTEM:**

43%	Task Analysis
43%	Clinical Behavior
10%	Four (4) Written Tests including: film critiques, a syllabus quiz, and one other clinic test.
4%	Specialty Rotations Forms in special assignment areas

95 - 100 = A

87 - 94 = B

80 - 86 = C

70 - 79 = D

0 - 69 = F

Failure to successfully complete all required objectives will result in an (I) incomplete in the clinical course. An incomplete must be removed by the next long semester or the (I) will be recorded as an (F)

and the student will be required to repeat the clinical course.

**\*\*\*a minimum of 80% is required for successful completion of this course\*\*\***

No task analysis may be repeated after the date assigned by the instructor or after the last clinical behavior report.

Special Assignment must be turned in by the assigned date or a grade of zero "0" will be given for that evaluation.

### **CLINIC POLICIES**

1. Identification badges must be worn at all times with name CLEARLY visible.
2. Students will abide by ALL LIT Radiology handbook policies.
3. Student's failure to abide by handbook policies may result in the clinical grade being lowered one full letter for each occurrence.

### **BLACKBOARD**

This course is Web Enhanced. All students will be required to login to **BLACKBOARD once a week on Wednesday** to check e-mail and complete assignments. Assignments will be posted throughout the semester. It is your responsibility to meet the deadlines.

**Late work will not be accepted. If you are unable to meet a deadline in this course send an e-mail and we will discuss your options.**

### **ATTENDANCE POLICY:**

1. For students in the radiology program to acquire the necessary clinical competency outlined in our curriculum, it is necessary that students complete all assigned clinical hours. Therefore, students missing **any** clinical hours will be required to make-up time missed at the end of the semester. Time will be made-up after the last scheduled clinic day or at the discretion of the clinical instructor. Students not completing make up time before the grades are due for the semester, will receive an incomplete (I) in the clinical course.
2. Any absence while assigned to a specialty area or off-hour rotation will require the clinical instructor to adjust the clinical schedule to assure all students meet the accreditation guidelines. For example, a student missing a day when assigned to an evening shift will have one of the future clinical days changed to an evening shift. The schedule adjustments will be made by the clinical instructor at their discretion.
3. Students who have tardy time totaling at least one (1) hour will be required to make-up all the missed time at the end of the semester. When a student is tardy he/she will not be allowed to make-up the time that day. If a student leaves clinic early for any reason, it will be added to the total tardy time.
4. If a student is unable to arrive at clinic within one hour of their scheduled time they will not be allowed to attend clinic on that day.
5. Students who miss a total of 24 hours during a Fall or Spring semester or 21 hours in the Summer semester **will receive a warning with the Disciplinary Action Form (DAF). When a fourth day is missed a DAF will be filled out and the Student's clinical grade will be lowered one full letter grade. Each subsequent absence may result in dropping of a letter grade pending a review by department committee.**
6. Students who exhibit excessive tardiness will receive a warning with the DAF. Further tardies will result in disciplinary action which may include an attendance contract and/or lowering of the student's clinical grade.
7. Students who fail to follow proper call in procedures when unable to attend clinic will have their clinic grade lowered one full letter grade for EACH day they fail to follow proper call in procedure.
8. Extenuating circumstances will be taken into account. Extenuating circumstances include funeral of immediate family, maternity, hospitalizations etc.

## **Starfish**

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

