XAVIER UNIVERSITY RADIOLOGIC TECHNOLOGY PROGRAM
SECTION THREE: Clinical Competency

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RADIOGRAPHIC PRACTICUM I
FALL SEMESTER – First Year

GOAL: After the proper didactic, clinical and laboratory instruction the student should have met the following conditions by the end of the FIRST semester:
1.) Maintain patient’s x-ray records and departmental records within the radiology department and assist with the patient flow. (P)
2.) Position the patient in the basic radiographic positions as directed by the radiographer. (P)
3.) Locate, identify, and operate the controls of the radiographic/fluoroscopic/portable equipment as well as oxygen and suction equipment when directed by the radiographer. (Ck)
4.) Demonstrate concern for the patient’s physical and mental needs while in the student’s care. (A)
5.) Express themselves in a professional manner at the clinical site. (A)

GRADING SYSTEM: The Radiographic Practicum I grade consists of clinical competency evaluations and clinical performance evaluations.

Each of the following clinical competency evaluations are graded and averaged into one clinical competency evaluation grade. This average counts for 50% of the Radiographic Practicum grade.

COMPETENCY LIST:
-EQUIPMENT IDENTIFICATION - O2 EQUIPMENT SET UP
-PROFESSIONAL RESPONSIBILITY - SAFETY POLICIES
-POSITIONING TERMINOLOGY - RADIATION PROTECTION
-PATIENT VITAL SIGNS - PATIENT ID, WHEELCHAIR, STRETCHER
SUCTION EQUIPMENT SET UP

The remaining 50% of the Radiographic Practicum I grade is from an average of the clinical performance evaluations. This performance evaluation is completed at the end of your two week room rotation by the radiographer(s) you were assigned to work with in the radiographic, fluoroscopic or portable rotations.

Note: Clinical Competency Forms are located in the Program Form Section

RADT 163 and 165: RADIOGRAPHIC PRACTICUM II AND III
SPRING AND SUMMER SEMESTERS – First Year

GOAL: After the proper didactic, clinical and laboratory instruction the student should have met the following conditions by the end of the third semester:

CONDITIONS:
1. All first year students shall complete the following list of competencies by the end of the last week August.

2. All competency examinations listed must be performed. All mandatory exams must be performed on patients. Elective exams can be performed on patients or in a mock situation.

3. Each student will have three attempts to perform the exam correctly. (Five points will be deducted with each attempt.) A student who fails a competency exam will receive remedial instruction from the clinical instructor.

4. Each student must complete FOUR competency exams per month. (NOTE: Excluding the month of December.) If a student fails to complete this requirement, s/he will receive an “O” for each competency examination not completed. (NOTE: A student may complete more than the require limit of competencies per month. After completion of the first year competency examination, a first year student may start on the second year competency examinations.) Each student must complete the Portfolio Assignment at the end of each semester. The grade is twenty-five percent of the semester grade.

5. The RADIOGRAPHIC PRACTICUM GRADE of: 50% of the grade consists of the clinical competency examinations and composite grade from the Clinical Performance Evaluation (CPE), 25% from a composite grade from portfolio grades and 25% from a composite grade from the clinical skills test. If clinical competency examinations have been completed, the Radiographic Practicum will be 100% clinical performance evaluation.

6. The RT program competency grading scale will be followed. Below a score of 85 is unacceptable and the competency exam must be repeated in the presence of the clinical instructor.
FIRST YEAR COMPETENCY EXAMINATIONS

EXAM: General Radiography: All 21 exams are mandatory.
PROJECTION: NUMBER:
Seventeen of the following twenty-one examinations must be performed on patients. The remaining four exams can be performed on patients or in a mock situation.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Projection</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chest</td>
<td>PA and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Chest (Wheelchair or Stretcher)</td>
<td>AP/PA and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Ribs</td>
<td>Two Views</td>
<td>1</td>
</tr>
<tr>
<td>Abdomen</td>
<td>KUB</td>
<td>1</td>
</tr>
<tr>
<td>Abdomen</td>
<td>Upright</td>
<td>1</td>
</tr>
<tr>
<td>Abdomen</td>
<td>Decubitus</td>
<td>1</td>
</tr>
<tr>
<td>Finger or Thumb</td>
<td>PA/AP, Obl., and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Hand</td>
<td>PA, Obl, and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Wrist</td>
<td>PA, Obl., and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Forearm</td>
<td>AP and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Elbow</td>
<td>AP and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Humerus</td>
<td>AP and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Shoulder</td>
<td>AP, Internal and External</td>
<td>1</td>
</tr>
<tr>
<td>Clavicle</td>
<td>AP/PA and angled</td>
<td>1</td>
</tr>
<tr>
<td>Foot</td>
<td>AP, Obl., and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Ankle</td>
<td>AP, Obl., and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Lower Leg</td>
<td>AP and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Knee</td>
<td>AP and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Femur</td>
<td>AP and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Hip</td>
<td>AP and Cleaves</td>
<td>1</td>
</tr>
<tr>
<td>Pelvis</td>
<td>AP</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective Exams: The following FOUR examinations must be completed. However, you may elect or choose how to perform the exam. You may elect to perform the exam on a patient or mock situation.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Projection</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chest</td>
<td>Decubitus</td>
<td>1</td>
</tr>
<tr>
<td>A.C. Joints</td>
<td>AP, with and without weights</td>
<td>1</td>
</tr>
<tr>
<td>Calcaneus</td>
<td>Plantodorsal and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Toes</td>
<td>AP and Obliques</td>
<td>1</td>
</tr>
</tbody>
</table>

CONTRAST STUDIES: All of the following examinations are Mandatory and must be completed on patients.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Projection</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper GI</td>
<td>AP/PA, Obl., and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Barium Swallow</td>
<td>AP/PA, Obl., and Lat.</td>
<td>1</td>
</tr>
<tr>
<td>Small Bowel</td>
<td>PA</td>
<td>1</td>
</tr>
</tbody>
</table>
PORTABLES: All examinations are mandatory and must be completed on patients.

<table>
<thead>
<tr>
<th>Examination</th>
<th>AP</th>
<th>Lateral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chest</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Abdomen</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Extremity</td>
<td>AP and</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Lateral</td>
<td></td>
</tr>
</tbody>
</table>

Number of mandatory examinations: 23
Number of elective examinations: 8

TOTAL NUMBER OF EXAMINATION: 31

Radiographic Portfolio Assignment
Radiographic Practicum II – V

Goal: Students will be able to analyze a radiographic film for radiographic quality and positioning skills.

Directions: Each semester you will be required to select 2 examinations and place them in your portfolio. Please provide the clinical instructor with the following selections by the end of each semester.

Semester 2: 1 chest projection and 1 abdomen projection
Semester 3: 1 lower extremity and 1 upper extremity projection
Semester 4: 1 gastrointestinal projection and 1 trauma projection
Semester 5: 1 skull or facial projection, 1 spine projection

These images should be examples of your best work, so you may want to critique them very carefully before you turn them in. For each projection selected, use the following procedure:

1. Select an exam that is an example of your best work, one from each category specified.
2. Select one projection from that exam.
3. Copy the patient’s film, making sure the patient’s information is deleted from the copy film or keep record of the patient’s name and date of the examination so original can be located if necessary.
4. Fill out the “Portfolio Film Information Form” completely, correctly and neatly.
5. See the grading form for more specific criteria.
6. Turn in the “Portfolio Film Evaluation Form” with your image to the clinical instructor by the end of the semester.

**RADT 261 and 263: RADIOGRAPHIC PRACTICUM IV, V**  
**FALL and SPRING SEMESTERS**

**GOAL:** After the proper didactic, clinical and laboratory instruction the student should have met the following conditions by the end of the sixth semester:

**CONDITIONS:**

1. All second year students shall *complete the following list of competencies* by the *end of the spring semester.* The clinical instructor and the program director must approve extending the deadline date if requested by the student.

2. All competency examinations listed must be performed. All mandatory exams must be performed on patients. Elective exams can be performed on patients or in a mock situation.

3. Each student will have *three attempts to perform the exam correctly.* (Five points will be deducted with each attempt.) A student who fails a competency exam will receive remedial instruction from the clinical instructor.

4. Each student must complete *FOUR competency exams per month* and *two exams previously completed.* (NOTE: Excluding the month of December.) If a student fails to complete this requirement, s/he will receive a “O” for each competency examination not completed. (NOTE: A student may complete more than the require limit of competencies per month. After completion of the first year competency examination, a first year student may start on the second year competency examinations.) Each student *must complete the Portfolio Assignment at the end of each semester.* The grade is twenty five percent of the semester grade.

5. The RADIOGRAPHIC PRACTICUM GRADE of: 50% of the grade consists of the clinical competency examinations and composite grade from the Clinical Performance Evaluation (CPE), 25% from a composite grade from portfolio grades and 25% from a composite grade from the clinical skills test. If clinical competency examinations have been completed, the Radiographic Practicum will be 100% clinical performance evaluation.

6. The RT program competency grading scale will be followed. Below a score of 85 is unacceptable and the competency exam must be repeated in the presence of the clinical instructor.

7. In order to graduate from the program, all competencies must be completed.
**SECOND YEAR COMPETENCY EXAMINATIONS**

<table>
<thead>
<tr>
<th>EXAM:</th>
<th>PROJECTIONS:</th>
<th>NUMBER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Radiography:</td>
<td><strong>All sixteen examinations are mandatory.</strong> <em>Four of the following exams can be performed on patients or in a mock situation.</em></td>
<td></td>
</tr>
<tr>
<td>Surgical Hip</td>
<td>cross table lateral projection</td>
<td>1</td>
</tr>
<tr>
<td>Patella</td>
<td>tangential</td>
<td>1</td>
</tr>
<tr>
<td>Cervical Spine</td>
<td>AP, Lateral and Open Mouth</td>
<td>1</td>
</tr>
<tr>
<td>Cervical Spine Trauma</td>
<td>Cross-Table Lateral Projection</td>
<td>1</td>
</tr>
<tr>
<td>Cervical/Thoracic Spine</td>
<td>Twining Method/Swimmers</td>
<td>1</td>
</tr>
<tr>
<td>Thoracic Spine</td>
<td>AP and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Lumbar Spine</td>
<td>AP, Lat., and L5-S1</td>
<td>1</td>
</tr>
<tr>
<td>SI Joints</td>
<td>AP and Obliques</td>
<td>1</td>
</tr>
<tr>
<td>Sacrum and Coccyx</td>
<td>AP and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Skull</td>
<td>PA, Towne, Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Facial Bones</td>
<td>PA, Waters and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Sinuses</td>
<td>PA, Waters, and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Nasal Bones</td>
<td>Waters and lateral</td>
<td>1</td>
</tr>
<tr>
<td>Trauma Upper Extremity</td>
<td>(two projections)</td>
<td>1</td>
</tr>
<tr>
<td>Trauma Lower Extremity</td>
<td>(two projections)</td>
<td>1</td>
</tr>
<tr>
<td>Trauma Shoulder</td>
<td>(“Y” View or Transthoracic)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Elective Group:** Each of the following **SIX** examinations must be performed. However, you may elect or choose how to perform the exam. You may elect to performed the exam on a patient or in a mock situation.

<table>
<thead>
<tr>
<th>EXAM:</th>
<th>PROJECTIONS:</th>
<th>NUMBER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandible</td>
<td>PA, Axiolateral, Towne</td>
<td>1</td>
</tr>
<tr>
<td>Orbits</td>
<td>PA and Waters</td>
<td>1</td>
</tr>
<tr>
<td>Zygomatic Arch</td>
<td>Waters and Tangential</td>
<td>1</td>
</tr>
<tr>
<td>Scapula</td>
<td>AP and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Sternum</td>
<td>RAO and Lateral</td>
<td>1</td>
</tr>
<tr>
<td>Upper Airway</td>
<td>AP and Lateral</td>
<td>1</td>
</tr>
</tbody>
</table>

**Surgery:** Both examinations are mandatory and must be performed on patients.

- C-Arm - requires manipulation to obtain more than one projection 1
- C-Arm - requires manipulation around a sterile field 1

**Pediatric Patients** (age 6 years or younger): **THREE** examinations are mandatory from this category. All students must complete the chest and abdomen examination and then select one from the optional list. This section will be completed at Children’s Hospital-Liberty Campus.

<table>
<thead>
<tr>
<th>EXAM:</th>
<th>NUMBER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chest</td>
<td>1</td>
</tr>
<tr>
<td>Abdomen</td>
<td>1</td>
</tr>
<tr>
<td>Upper extremity or lower extremity (select one)</td>
<td>1</td>
</tr>
</tbody>
</table>
Geriatric Patients (physically or cognitively impaired as result of aging)

Chest 1
Upper extremity 1
Lower extremity 1

Mammography: Pass a written test given 1

Computed Tomography 1

MRI 1

Venipuncture 1

Number of elective and mandatory examinations = 33

Number of Continuing Competency Exams = 18

GRAND TOTAL NUMBER OF COMPETENCIES = 52

MAINTAINING COMPETENCY SKILLS

After a student has successfully completed a competency examination, s/he is expected to maintain competent in their clinical areas. If a student is unable to perform an exam that they have "tested out" of, the student is not found competent and must repeat that competency examination.

The repeated competency examination is seen as a second attempt and scoring begins at a 95%. The repeated competency examination is an additional competency exam and the score is averaged with the other required competency examinations for that month.

If the repeated competency examination is not completed within the 30 days, the student will receive a zero (0) for that examination and the score will be averaged with the monthly examination grade. At this time, the student will be placed on clinical probation and the student will have another 30 days to complete the competency. Scoring will begin at a 90%. If the student fails to complete the repeated competency examination by this time, the student will be dismissed from the Radiologic Technology Program.

Any further lack of competency shown by the student will place the student on clinical probation.

NOTE: Students needing to repeat a competency examination must take the responsibility of scheduling the time with the Clinical Instructor. Scheduling clinical rotations for repeated competency examinations are under the discretion of the Clinical Instructor.

Revised Fall 2019