JEFFERSON COLLEGE

COURSE SYLLABUS

RAD240

Clinical Practicum V

3 Credit Hours

Revised by: Janet E. Akers BS RT (R)(M)
Date: October 3, 2013

Kenny Wilson, Director, Health Occupation Programs
Dena McCaffrey, Dean, Career & Technical Education
RAD240 Clinical Practicum V

I. CATALOGUE DESCRIPTION

A. Prerequisites: RAD115 Radiographic Positioning I, RAD125 Radiographic Positioning II, RAD135 Radiographic Positioning III, RAD 145 Radiographic Positioning IV, RAD200 Clinical Practicum I, RAD210 Clinical Practicum II, RAD220 Clinical Practicum III, RAD230 Clinical Practicum IV, and reading proficiency. All prerequisite courses must be completed with a grade of “B” or above.

B. Credit hour award: 3

C. Description: This clinical practicum is the fifth course in a series of five clinical education courses designed for development, application, analysis, integration, synthesis and evaluation of clinical competencies that have been taught previously in positioning courses. Supervised clinical rotations will be performed in basic areas of radiologic technology at assigned clinical sites. The clinical credit hours have been equally assigned to the five program clinical courses. This course is a portion of the five steps to clinical competency and must be completed with a minimum grade of 86%. (S)

II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

<table>
<thead>
<tr>
<th>Expected Learning Outcomes</th>
<th>Assessment Measures</th>
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<tbody>
<tr>
<td>Evaluate the technological factors affecting radiographic image quality and patient assessment skills.</td>
<td>Competency Check off</td>
</tr>
<tr>
<td>Demonstrate radiation protection for patients, self and other healthcare workers.</td>
<td>Competency Check off</td>
</tr>
<tr>
<td>Manipulate/demonstrate the effective operation of x-ray equipment for radiologic examinations.</td>
<td>Competency Check off</td>
</tr>
<tr>
<td>Clinical Instructor (CI) monthly evaluation</td>
<td></td>
</tr>
<tr>
<td>Demonstrate student initiative in regards to personal effort, use of time, interest in clinical education, judgment, quantity of work and radiographic quality.</td>
<td>CI monthly evaluation</td>
</tr>
<tr>
<td>Achieve clinical competency by progressing through the five steps to clinical competency.</td>
<td>Competency Check off</td>
</tr>
</tbody>
</table>
Demonstrate interpersonal and communication skills in regards to interaction with others.

Demonstrate patient care in regards to tact and courtesy, communication, concern and interactions.

Demonstrate professionalism in regards to listening skills, attendance, appearance, attitude and cooperation, reaction to criticism and use and care of equipment.

Demonstrate critical thinking skills.

Demonstrate the use of appropriate infection control guidelines during patient care.

<table>
<thead>
<tr>
<th>CI monthly evaluation</th>
<th>CI monthly evaluation</th>
<th>CI monthly evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Competency Check off</td>
<td></td>
<td></td>
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<tr>
<td>Written assignment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competency Check off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

III. OUTLINE OF TOPICS/ COMPETENCIES: By completion of the fifth clinical practicum, all radiology students will have completed all competency requirements as defined by the American Registry of Radiologic Technologists (ARRT).

A. Chest Routine
   a. Chest AP (anterior posterior) (Wheelchair or Stretcher)
   b. Ribs
   c. Chest Lateral Decubitus
   d. Sternum
   e. Upper Airway (Soft-Tissue Neck)

B. Upper Extremity
   a. Thumb or Finger
   b. Hand
   c. Wrist
   d. Forearm
   e. Elbow
   f. Humerus
   g. Shoulder
   h. Trauma: Shoulder (Scapular Y, Transthoracic or Axillary)
   i. Clavicle
   j. Scapula
   k. AC Joints
   l. Trauma: Upper Extremity (Nonshoulder)

C. Lower Extremity
   a. Toes
   b. Foot
c. Ankle
d. Knee
e. Tibia-Fibula
f. Femur
g. Trauma: Lower Extremity
h. Patella
i. Calcaneus (Os Calcis)

D. Head – Candidates must select at least one elective procedure from this section.
   a. Skull
   b. Paranasal Sinuses
c. Facial Bones
d. Orbits
e. Zygomatic Arches
f. Nasal Bones
g. Mandible

E. Spine and Pelvis
   a. Cervical Spine
   b. Trauma: Cervical Spine (Cross Table Lateral)
c. Thoracic Spine
d. Lumbar Spine
e. Pelvis
f. Hip
g. Cross Table Lateral Hip
h. Sacrum and/or Coccyx
i. Scoliosis Series
j. Sacroiliac Joints

F. Abdomen
   a. Abdomen Supine (KUB)
b. Abdomen Upright
c. Abdomen Decubitus
d. Intravenous Urography

G. Fluoroscopy Studies – Candidates must select Upper GI or Barium Enema plus one other elective procedure from this section.
   a. Upper GI Series (Single or Double Contrast)
b. Barium Enema (Single or Double Contrast)
c. Small Bowel Series
d. Esophagus
e. Cystography/Cystourethrography
f. Endoscopic Retrograde Cholangiopancreatography (ERCP)
g. Myelography
h. Arthrography

H. Surgical Studies
   a. C-Arm Procedure (Orthopedic)
b. C-Arm Procedure (Non Orthopedic)

I. Mobile Studies
a. Chest  
b. Abdomen  
c. Orthopedic  
   J. Pediatrics (age 6 or younger)  
   a. Chest Routine  
   b. Upper Extremity  
   c. Lower Extremity  
   d. Abdomen  
   e. Mobile Study  
K. Digital Systems  
   a. Digital Radiography  
   b. Digital Fluoroscopy

IV. METHOD(S) OF INSTRUCTION

This course is taught using a variety of instructional methods which include but are not limited to student observation and performance of radiologic exams, critical thinking projects, interactive learning with clinical staff, and application of any new information taught within the classroom. Students are expected to be ACTIVE participants in the learning process.

V. REQUIRED TEXTBOOK(S)

B. Jefferson College Clinical Competency Book

VI. REQUIRED MATERIALS

A. A computer with internet access and basic software to include Word and Power Point (available through Jefferson College labs)  
B. Course homepage available through Blackboard  
C. Technique book, radiation badge, name tag, lead markers, pen, uniform, white lab coat, white sneakers, white socks, clinical competency book.

VII. SUPPLEMENTAL REFERENCES

A. Clinical Handouts  
B. Library Resources  
   1. Textbooks  
   2. Periodicals  
   3. Films On Demand Videos  
C. Internet Resources  
   1. On-line references  
   2. Textbook companion website
VIII. METHOD OF EVALUATION (basis for determining course grade)

ASSIGNMENTS: For each clinical rotation, the clinical instructor and the clinical coordinator will evaluate each student on awareness of the environment, communication skills, quality assurance, quality of service, work behaviors and professional ethics. Failure to turn in monthly evaluations will result in a 5% reduction in grade for each day late and a zero for that month if late more than three days. For orientation and specialty rotations, the student will complete the appropriate clinical objectives, have the objective form signed by the supervising technologist and turn it in to the clinical coordinator within 1 week of completion of the rotation. For each day the orientation or specialty objectives are late, the grade for those objectives will be reduced by 20%. If specialty objectives are over 5 days late, the student will not receive credit for that assignment. All specialty objectives must be completed in order to complete course requirements. Until course requirements are met, the final grade will be an incomplete.

Each student is required to complete a set number of competencies (listed below) during each semester. Until course requirements are met, the final grade will be an incomplete. Failure to complete the minimum number of competencies two consecutive semesters may be grounds for dismissal from the program. Students completing all competencies for the current semester may begin work on competencies for the following semester. Any registered technologist may evaluate step 4 or 5 of the Five Steps to Clinical Competency. The clinical instructor for the site or a Jefferson College Radiologic Technology faculty member must evaluate or over sign step 5.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Competencies</th>
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<tbody>
<tr>
<td>1st Semester (Spring)</td>
<td>8</td>
</tr>
<tr>
<td>2nd Semester (1st 4 week session)</td>
<td>6</td>
</tr>
<tr>
<td>3rd Semester (2nd 4 week session)</td>
<td>6</td>
</tr>
<tr>
<td>4th Semester (Fall)</td>
<td>12</td>
</tr>
<tr>
<td>5th Semester (Spring)</td>
<td>14</td>
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<td></td>
<td>46 total</td>
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</table>

As this course is a portion of the Five Steps to Clinical Competency, a minimum mastery of 86% is required to successfully complete the course. All competency exams with scores less than 86% must be retaken until a score of 86% or above is achieved to complete course requirements. The original score will be used to figure the semester grade. Until course requirements are met, the final grade will be an incomplete.

Clinical grades will be based on a percentage of total possible points. Clinical grades will be based on the following scores:

- Rotation evaluations
- Clinical competencies
- Attendance
Failure to turn in film badges on the date specified will result in a reduction in grades.

Grading Scale: *(Jefferson College Radiologic Technology Program’s)*

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>100-92%</td>
</tr>
<tr>
<td>B</td>
<td>91.9-86%</td>
</tr>
<tr>
<td>C</td>
<td>85.9-80%</td>
</tr>
<tr>
<td>D</td>
<td>79.9-70%</td>
</tr>
<tr>
<td>F</td>
<td>69.9 and below</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>W</td>
<td>Excused withdrawal from course</td>
</tr>
</tbody>
</table>

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Library; phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College website, [http://www.jeffco.edu](http://www.jeffco.edu)).

XI. ATTENDANCE STATEMENT

Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details. Student’s grade will also be based on participation in class and attendance.

XII. OUTSIDE OF CLASS ACADEMICALLY-RELATED ACTIVITIES

The US Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically-related activities such as reading, studying, and completing assignments. Specifically, time spent on academically-related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.