COURSE OUTLINE

Course Number: RAD206
Course Title: Clinical Practicum
Credits: 3

Hours: 42 Clinical Days
Co- or Pre-requisite: RAD128, RAD120, RAD114

Catalog Description (2016-2017):

Students participate in clinical education in an affiliate hospital performing procedures in accordance with the clinical competency evaluation process. Radiographic procedures are performed on a variety of patient types. Summer offering.

Required Texts/Other Materials:

<table>
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<tr>
<th>Title</th>
<th>Textbook of Radiographic Positioning and Related Anatomy</th>
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<tbody>
<tr>
<td>Author</td>
<td>K. Bontrager</td>
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<tr>
<td>Publisher</td>
<td>Mosby</td>
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<td>Edition</td>
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<tr>
<th>Title</th>
<th>Merrill’s Pocket Guide to Radiography</th>
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<tr>
<td>Author</td>
<td>Eugene Frank, et al</td>
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<tr>
<td>Publisher</td>
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<tr>
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Revision Date: Spring 2017
No Course Changes

Course Coordinator:
William Petrosky
Voice: 609.570.3341
E-mail: petrioskw@mccc.edu
 Course Competencies/Goals:

The Student will be able to:

1. Develop proficiency in patient assessment and care at the time that radiographic procedures are performed.

2. Safely operate stationary and mobile radiographic units.

3. Utilize principles of exposure techniques and radiographic positioning during both in-department and beside radiography.

4. Develop proficiency in a broad range of radiographic procedures learned in RAD127 and RAD128.

5. Become oriented to the operating room facilities at the clinical affiliation.

6. Perform radiographic examinations for which competency has been demonstrated under indirect supervision*.

*Students who demonstrate competency in any procedure may perform that procedure under indirect supervision. This means that the licensed radiographer need not be present in the radiographic room during the procedure, but must be adjacent to the room and immediately available should the student require assistance.

Any student who produces an unacceptable image that requires a retake must have it performed with direct supervision regardless of that student’s level of competency. Failure to comply with this rule will subject the student to disciplinary action.

Course-specific General Education Goals and Core Skills:

General Education Knowledge Goals:

- **Goal 1. Communication.** Students will communicate effectively in both speech and writing.

- **Goal 2. Mathematics.** Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.

- **Goal 3. Science.** Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.

- **Goal 4. Technology.** Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.

- **Goal 5. Social Science.** Students will use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens.
• **Goal 8. Diversity.** Students will understand the importance of a global perspective and culturally diverse peoples.

• **Goal 9. Ethical Reasoning and Action.** Students will understand ethical issues and situations.

**MCCC Core Skills**

• **Goal A. Written and Oral Communication in English.** Students will communicate effectively in speech and writing, and demonstrate proficiency in reading.

• **Goal B. Critical Thinking and Problem-solving.** Students will use critical thinking and problem solving skills in analyzing information.

• **Goal C. Ethical Decision-Making.** Students will recognize, analyze and assess ethical issues and situations.

• **Goal D. Information Literacy.** Students will recognize when information is needed and have the knowledge and skills to locate, evaluate, and effectively use information for college level work.

• **Goal E. Computer Literacy.** Students will use computers to access, analyze or present information, solve problems, and communicate with others.

• **Goal F. Collaboration and Cooperation.** Students will develop the interpersonal skills required for effective performance in group situations.

• **Goal G. Intra-Cultural and Inter-Cultural Responsibility.** Students will demonstrate an awareness of the responsibilities of intelligent citizenship in a diverse and pluralistic society, and will demonstrate cultural, global, and environmental awareness.

**Units of Study in Detail:**

Upon completion of the 42-day clinical experience the student will be able to:

- Exercise the priorities required in daily clinical practice. (CG 4; GE 1, B, F)
- Execute medical imaging procedures under the appropriate level of supervision. (CG 6; GE 9, C, F)
- Adhere to team practice concepts that focus on organizational theories, roles of team members and conflict resolution. (GE F)
- Adapt to changes and varying clinical situations. (CG 1; GE B, F, G)
- Provide patient-centered clinically effective care for all patients regardless of age, gender, disability, special needs, ethnicity or culture. (CG 1; GE 5, 8, G)
- Integrate the use of appropriate and effective written, oral and nonverbal communication with patients, the public and members of the health care team in the clinical setting. (CG 1; GE 1, 5, A)
- Integrate appropriate personal and professional values into clinical practice. (GE 9, C, F)
- Recognize the influence of professional values on patient care. (GE 9, C, G)
• Explain how a person’s cultural beliefs toward illness and health affect his or her health status. (GE 8, G)
• Provide desired psychosocial support to the patient and family. (CG 1; GE 5, A, B)
• Demonstrate competent assessment skills through effective management of the patient’s physical and mental status. (CG 1; GE 5, B)
• Respond appropriately to medical emergencies. (CG 1; GE 1, A, B, F)
• Adapt procedures to meet age-specific, disease-specific and cultural needs of patients. (CG1, 3; GE 2, 3, B)
• Assess the patient and record clinical history. (CG 1; GE 1, 4, A)
• Apply standard and transmission-based precautions. (CG 4, 5, 6; GE B)
• Apply the appropriate medical asepsis and sterile technique. (CG 4, 5, 6; GE B)
• Demonstrate competency in the principles of radiation protection standards. (CG 2, 3; GE 7, B)
• Report equipment malfunctions. (CG 2; GE 1, B)
• Examine procedure orders for accuracy and make corrective actions when applicable. (CG 1, 4, 6; GE A, B)
• Demonstrate safe, ethical and legal practices. (CG 2, 3; GE 9, C)
• Integrate the radiographer’s practice standards into clinical practice setting. (CG 1; 2, 3; GE A, B)
• Maintain patient confidentiality standards and meet HIPAA requirements. (GE 9, C)
• Demonstrate the principles of transferring, positioning and immobilizing patients. (CG 1; GE 1, B, F)
• Differentiate between emergency and non-emergency procedures. (CG 1, 2; GE B)
• Adhere to national, institutional and departmental standards, policies and procedures regarding care of patients, providing radiologic procedures and reducing medical errors. (CG 1, 2, 3, 4, 5)
• Select technical factors to produce quality diagnostic images with the lowest radiation exposure possible. (CG 3; GE 2, 3, B, E)
• Critique images for appropriate anatomy, image quality and patient identification. (GE A, B, C, D)
• Determine corrective measures to improve inadequate images. (CG 3; GE B, C, F)

**Evaluation of Student Learning:**

There will be two (2) clinical evaluations that will cover the student's overall technical and professional development. Students will complete and submit a self-evaluation form on a bi-weekly basis. The clinical instructors at each clinical affiliation will use the information received to assist students in reaching targeted goals, but will also serve as the basis for assessing student progress.

A comprehensive assessment of prior student learning will be made using the services of *HESI* (Health Education Services, Inc.). Called the Radiography Mid-Curricular Assessment, this computerized evaluation will consist of 200 multiple-choice covering radiographic procedures, patient care, imaging science and radiation protection. Students are encouraged to use the results of the assessment to strengthen areas of weakness through online review using the Elsevier/HESI portal resources. These resources will become
available 24 hours a day, 7 days a week once the assessment scores are posted.

Students are required to satisfactorily complete clinical competency testing in 12 radiographic procedures (7-CCE, 2-Continual, and 3-Elective) that are described in the Clinical Education Student Handbook. In this regard, a CCE is a clinical competency evaluation that is conducted to determine a student’s ability to successfully perform a radiographic procedure at an initial level of ability. Continual competency evaluations require demonstration of student proficiency in procedures previously completed at the initial (CCE) level. A clinical instructor may initiate a continual competency evaluation at any time during the term. Elective competency evaluations assess ability to perform radiographic procedures that may be performed with less frequency, but evidence a student’s ability in a broad range of clinical knowledge and skill.

The clinical grade is computed as follows:

Clinical Evaluations: 47%
*HESI Mid-Curricular Assessment: 6% (6/23/17 @ 9:30 am at MCCC)
Clinical Competency Evaluations: 47%

NOTE: CCE forms must be submitted to the Radiography Program Office within one week of the completion date. CCE forms will not be accepted after the deadline and will require the procedure(s) to be re-evaluated.

Clinical Assignment Schedule:

Students will report to the assigned clinical facility prepared to begin clinical education at 8:00 a.m. until 3:00 p.m. unless otherwise notified. Specific clinical dates, and sites will be distributed at the start of the course.

*Note: Students who demonstrate competency in any procedure may perform that procedure under indirect supervision. This means that the licensed radiographer need not be present in the radiograph room during the procedure, but must be adjacent to the room and immediately available should the student require assistance.

Students who produce unacceptable radiographs must repeat those radiographs under direct supervision regardless of the student’s level of competency. Failure to comply with this rule is subject to disciplinary action.
Clinical Education Policies:

The student should refer to the clinical education handbook for the pertinent policies regarding attendance, punctuality, CCEs, etc. Please note that cellular phones are not to be used in any clinical education facility as these can interfere with unshielded medical devices such as cardiac pacemakers.

Academic Integrity Policy Statement:

Mercer County Community College is committed to Academic Integrity -- the honest, fair and continuing pursuit of knowledge, free from fraud or deception. Academic Integrity is violated whenever a student:

A. Uses or obtains unauthorized assistance in any academic work.
B. Gives fraudulent assistance to another student.
C. Knowingly represents the work of others as his/her own, or represents previously completed academic work as current.
D. Fabricates data in support of an academic assignment.
E. Inappropriately or unethically uses technological means to gain academic advantage.

In all cases, the instructor shall notify the Chair of the Academic Integrity Committee of the violation. Students should refer to the MCCC Student Handbook for the complete policy. Students may be required to report violations of Academic Integrity to the American Registry of Radiologic Technologists.
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Memorial Day Holiday: May 29
Independence Day Holiday: July 4
Mid-Term Evaluation Due: June 20
HESI Mid-Curricular Assessment (No Clinical): June 23
End-Term Evaluation Due: July 20

**NOTE:** 12:00 PM Dismissal - Students hand-deliver all required evaluation forms and dosimeter to Mr. Petrosky (MS148) by 1:00 PM