

# Virginia Western Community College

## RAD 290

### Coordinated Internship

**Prerequisites:**

Successful completion of RAD 232.

**Course Description:**

Provides additional experience in radiographic procedures, demonstrating skills in technical proficiency, patient care procedures, radiation protection, and evaluation of experience in cooperating health agencies.

**Semester Credits: 3****Lecture Hours: 0****Lab/Clinical/Internship Hours: 20****Required Materials****Textbook:**

None

**Course Outcomes**

**At the completion of this course, the student will improve their knowledge and proficiency in:**

- Communication and interpersonal skills with patients, technologists, physicians, and hospital personnel
- Critical thinking skills, problem-solving skills, and a systematic approach to producing quality radiographic images
- Radiographic procedures in, but not limited to, diagnostics, portables and surgery, fluoroscopy, emergency, and special studies
- Image processing, application of radiographic technical factors, and radiation protection practices
- Personal and Professional conduct and ethics
- The characteristics of Affective Domain

## **Topical Description**

Upon completion of this unit of clinical experience, the student will have proven competency in the following areas in order to be eligible for graduation:

### **I: Radiographic Examinations**

- Cervical Spine
- Hip
- UGI/ Barium Enema
- Portable Chest
- Surgical Procedure

### **II: Communication Skills**

- Requisition for Examination
- Patient Education and Orientation
- Interaction with Others

### **III: Patient Care**

- Patient Safety and Comfort
- Anticipation of Medical Emergencies
- Awareness of Patient Needs

### **IV: Imaging Procedures**

- Use of Proper Film/Screen Combination
- Manipulation of Equipment
- Use of Immobilization Devices
- Proper Technique Selection
- Proper Positioning Skills
- Demonstration of Knowledge of Anatomy,
- Physiology and Pathology
- Evaluation/Critique of Radiographs

### **V: Radiation Safety**

- Proper Collimation/Use of Cones
- Use of Shielding/Protective Devices
- Maintain Maximum Distance Relative to the Primary Beam
- Removal of all Unnecessary Persons from the Area during Exposure
- Obtain LMP from Female Patients

VI: Imaging Equipment

- Knowledge of Equipment Limitations
- Awareness of and Proper Notification of Malfunction
- Demonstration of Knowledge and Skills in Quality Assurance
- Processing of Radiographs

VII: Aseptic Technique

- Preparing Solutions and Injections
- Assisting in Sterile Procedures
- Preparation of Sterile Tray/Table
- Utilization of Standard Precautions

VIII: Professional Responsibility and Affective Domain

- Patient Care
- Initiative
- Communication
- Cooperation
- Dependability
- Organization
- Attitude
- Responsibility
- Appearance
- Adherence to College/Program Policies and Procedures
- Medical Ethics
- Emotional Demeanor

**Note to Instructors**

1. One-on-one tutorial sessions are available upon request.
2. Students may utilize the energized laboratory under supervision of a faculty member while on campus.
3. On-campus laboratory rules must be followed.
4. Students must adhere to the program's "Repeat Policy" when repeating any radiographic procedures.