

## **RADIOLOGIC TECHNOLOGY PROGRAM**

### **Associate of Science**

#### ***Professor Jason Wilcox, Program Director***

The radiologic technology program develops competence in the knowledge and skills required for radiologic imaging. The integrated curriculum includes 16 hours of general studies credit and 47 hours of radiologic technology credits. Once pre-requisites are completed, students who are successful with all other program requirements may complete the degree in just 17 months. The curriculum incorporates both didactic and clinical education components. Students have the advantage of practicing most radiographic procedures on campus in a lab similar to those found in most hospital settings, as well as taking part in direct patient contact during the clinical components of the program.

Upon meeting program completion requirements, graduates are eligible to apply for the American Registry of Radiologic Technology (ARRT) examination. Successful completion of the ARRT exam grants certification required for licensure in West Virginia and most other states. Individuals with prior felony or certain misdemeanor convictions may not be eligible for certification by the ARRT and/or licensure by state agencies. Also, individuals with prior felony or certain misdemeanor convictions may not be permitted to attend clinical due to various clinical site policies. In such cases students would not be permitted to continue in the program or complete the degree. Contact the appropriate licensing agency and the program director for more information.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N Wacker Drive, Suite 2850, Chicago, IL 60606-3182, 312.704.5300, [mail@jrcert.org](mailto:mail@jrcert.org) or <http://www.jrcert.org>

#### **Program Learning Outcomes**

The graduate will:

1. Demonstrate effective verbal communication skills.
2. Demonstrate appropriate written communication skills.
3. Assess patient needs and adapt as required.
4. Identify anatomy and appropriate levels of quality on medical images.
5. Utilize equipment to produce quality images.
6. Utilize appropriate radiographic procedures.
7. Practice principles of radiation protection.
8. Conduct themselves in a professional and ethical manner.
9. Students will understand the importance of professional development activities.

#### **Application and Admission**

Admission to the program is selective. Acceptance to University of Charleston and meeting program admission requirements do not guarantee admission to the program. The program accepts one class a year for spring semester entry, with a maximum of 25 students admitted.

Applications received by August 15 will receive full consideration. Applications received after that date will be reviewed on a first-come, first-served basis if and until the spring cohort is full.

Criteria for admission are as follows:

- High school graduate or equivalent

- General admission to the University

- Completion of all prerequisite coursework with a minimum grade of C in each course

- Minimum GPA of 2.5 in all college-level study, preference will be given to students with the highest GPA

- Although it is not required for program admission, students are encouraged to complete an ACT or SAT. In cases of a full class, preference will be given to students with the highest ACT/SAT scores.

- Please note: In cases where qualified applicants exceed the program's capacity, a score card will be used for the selection process. Only the top scoring students will be admitted. The score card is available on the program's web page or upon request.

The final phase of admission requires a technical standards evaluation.

Students must be able to articulate that they are physically able to perform the following tasks to function competently in the field of radiologic technology:

- Manipulate the x-ray tube in all directions

- Insert and remove a cassette from the bucky tray

- Lift 25 pounds of weight from the floor and carry to the exam table

- Assist a simulated patient in moving from a wheelchair and stretcher to the exam table

- Read a doctor's order/clinical requisition with accuracy

- Observe a patient's respiration from a distance of 10 feet

- Hear a patient's verbal request within an exam room

Reasonable accommodations are made for applicants with the proper documentation of a disabling condition.

### What You Will Study

Program Summary	
Course Number	Credits
University Requirements	16
Program Requirements	47
<b>Program Total</b>	<b>63</b>

Coursework is based on a structure of 1 contact hour per credit hour for lecture courses and 8 contact hours per credit hour for clinical courses.

### Program Prerequisites

Applicants are required to complete 13 semester hours of prerequisite study as listed below before being fully admitted into the program:

Freshmen Fall Semester (Prerequisites)		
Course Number	Course Title	Credits
MATH 120	Intermediate Algebra	3
BIOL 212	Intro.to Human Anatomy & Physiology	3
BIOL 212L	Intro.to Human Anatomy & Physiology Lab	1
RADT 101/ RADT 101L	Imaging Procedures I and Lab	4
RADT 107 / RADT 107L	Introduction to Radiology and Patient Care Laboratory	2
	<b>Total</b>	<b>13</b>

### Program Requirements/Sequence

Freshmen Spring Semester		
SSCI 105	Issues in Social Science	3
ENGL 101	Freshmen Writing I	3
RADT 108	Radiologic Clinical I	2
RADT 111 / RADT 111L	Image Procedures II and Lab	4
RADT 115	Radiographic Physics I	3
RADT 125	Radiographic Physics II	3
	<b>Total</b>	<b>18</b>

Freshmen Summer I		
RADT 118	Radiologic Clinical II	1
ENGL 102	Freshman Writing II	3
	<b>Total</b>	<b>4</b>

Freshmen Summer II		
Course Number	Course Title	Credits
RADT 128	Radiologic Clinical III	1
RADT 206	Quality Assurance	1
	<b>Total</b>	<b>2</b>
	<b>Summer Total</b>	<b>6</b>

SECOND Fall Semester		
RADT 201 / 201L	Image Procedures III and Lab	4
RADT 203	Image Acquisition	3
RADT 204	Radiobiology / Radiation Protection	2
RADT 208	Radiologic Clinical IV	3
RADT 210	Radiologic Pharmacology and Drug Administration	2
	<b>Total</b>	<b>14</b>

Sophomore Spring Semester		
RADT 211	Imaging Procedures Review	3
RADT 217	Radiographic Pathology	2
RADT 218	Radiologic Clinical V	3
RADT 229	Advanced Imaging	1
RADT 230	Capstone Seminar	3
	<b>Total</b>	<b>12</b>

Students must maintain a minimum GPA of 2.5 throughout the entire course of study. Program progress requires a grade of C in all required courses. Failure to meet these requirements will result in dismissal from the program.