

HERZING

ASSOCIATE OF SCIENCE IN RADIOLOGIC TECHNOLOGY (ASRT)

PROGRAM DESCRIPTION

This is a selective admission, limited-enrollment program that prepares students with the necessary skills and academic knowledge for entry-level positions as a radiologic technologist in a clinic or hospital setting. The program contains 76.00 semester hours: 22.00 general education, 2.00 personal development, and 52.00 program core-specific courses. The courses are progressive with successive courses building on preceding courses. The successful completion of each course, in sequence with a program GPA of 2.50 and higher, is required. Students will learn the theory and principles of radiation production, radiographic techniques, and the fundamentals of patient care through the combination of lectures, textbooks, slides, videos, hand-outs, practice in the on-campus lab, and actual clinical participation. Students completing the program will be eligible to take the national registry exam offered by the ARRT and the state licensure exam.

PROGRAM OBJECTIVES

Upon completion of their program, the student should be able to:

1. Provide basic patient care and education concerning radiographic procedures.
2. Understand radiographic terminology, especially as it relates to radiographic procedures and reports.
3. Make ethical decisions in the delivery of healthcare.
4. Understand the principles of radiation.
5. Understand the structure and function of the human body in health and pathological states, including how radiation is utilized in diagnosis and treatment of pathological conditions.
6. Establish a basic knowledge of atoms, radiation, x-ray production, and photon interactions with matter.
7. Understand and apply basic principles of radiation safety for radiographers, patients, and the public.
8. Understand the basic concepts of pharmacology, including the basic techniques of administering diagnostic contrast agents and intravenous medications.
9. Be able to perform basic radiographic procedures, including proper positioning to ensure diagnostic imaging, and produce, record, and analyze radiological images.
10. Utilize various types of radiographic equipment, including radiographic, fluoroscopic, mobile, and tomographic equipment.
11. Think critically, both conceptually and by using mathematical analysis; write and speak effectively; use basic computer applications; and understand human behavior in the context of the greater society.

POTENTIAL JOB POSITION TITLES

Potential entry-level job position titles include radiologic technologist upon successful completion of the ARRT registry exam. Registered technologists have additional career opportunities in computer tomography (CT), magnetic resonance imaging (MRI), nuclear medicine (NM), ultra-sonography (US), mammography, angiography, and quality assurance.

PROGRAM CONTENT

A minimum of 76.00 semester credit hours is required for graduation.

GENERAL EDUCATION PREREQUISITES

The following general education prerequisite courses must be completed with a grade of C+ (76%) or better for a student to be continued in the Radiologic Technology program:

- ◆ Anatomy and Physiology I and Anatomy and Physiology I Lab
- ◆ Anatomy and Physiology II and Anatomy and Physiology II Lab

All other general education courses must be passed with a grade of D (60%) or better to be continued in the Radiologic Technology program.

A student who is dropped from the program for failing to achieve the minimum grade specified in the general education courses but who otherwise meets the academic standards of the University may transfer to another Herzing degree program and/or may reapply to the Radiologic Technology program in a future cycle.

REQUIRED COURSES

All courses, 47.00 semester credit hours, are required.

Course Number	Course Name	Prerequisite	Credit Hours
RT 102	Introduction to Radiography	SC 245 and SC 245L	3.00
RT 106	Methods of Patient Care	SC 245 and SC 245L	2.00
RT 110	Principles of Radiography I	RT 102 and RT 106	3.00
RT 115	Radiographic Procedures I	SC 245 and SC 245L; Corequisite RT 115L	2.00
RT 115L	Radiographic Procedures I Lab	Corequisite RT 115	1.00
RT 121	Principles of Radiography II	RT 110	3.00
RT 131	Radiographic Procedures II	RT 102 and RT 115; Corequisites RT 106, RT 131L	2.00
RT 131L	Radiographic Procedures II Lab	Corequisite RT 131	1.00
RT 135	Radiologic Clinical Education I	RT 115	3.00
RT 146	Radiologic Clinical Education II	RT 135	3.00
RT 156	Radiologic Clinical Education III	RT 146	3.00
RT 230	Radiographic Procedures III	RT 131; Corequisite RT 230L	2.00
RT 230L	Radiographic Procedures III Lab	Corequisite RT 230	1.00
RT 255	Radiologic Pathology	RT 121 and RT 230	2.00
RT 260	Cross-Sectional Anatomy	RT 102 and RT 121	2.00
RT 266	Radiologic Clinical Education IV	RT 156	4.00
RT 276	Radiologic Clinical Education V	RT 266	4.00
RT 295	Radiography Review	All core courses except RT 297	3.00
RT 297	Radiologic Clinical Education VI	RT 276	3.00

REQUIRED SUPPORT COURSE

1.00 credit hour is required.

Course Number	Course Name	Prerequisite	Credit Hours
MO 144	Medical Terminology	None	1.00

REQUIRED COURSES IN GENERAL EDUCATION

Students enrolled in this associate's degree must complete a minimum of 26.00 semester credit hours in general education distributed among the following disciplines. Refer to the General Education section of the catalog for Herzing University courses that would satisfy these requirements. *

8.00 Semester Credit Hours of Anatomy and Physiology With Lab

1.00 Semester Credit Hours in Information Literacy

3.00 Semester Credit Hours in English Composition or Literature

3.00 Semester Credit Hours in Speech

4.00 Semester Credit Hours in Computer Applications

4.00 Semester Credit Hours in Mathematics (College Algebra or above)

3.00 Semester Credit Hours in Social or Behavioral Science

* Transfer students may transfer courses that are within 1.00 semester credit hour of the courses listed above to meet these discipline requirements. Any resulting deficiency in the total of 26.00 semester credit hours required in general education may be made up with general education electives from any of the listed disciplines.

PERSONAL AND PROFESSIONAL DEVELOPMENT COURSES

2.00 semester credit hours are required.

Course Number	Course Name	Prerequisite	Credit Hours
PD 121	Professional Development I	None	1.00
PD 202	Professional Development II	None	1.00

Distribution of Clock Hours by Course					
Course or Category	Lecture	Lab	Clinical	Total Clock Hours	Credits
MO 144	15.00			15.00	1.00
RT 102	45.00			45.00	3.00
RT 106	30.00			30.00	2.00
RT 110	45.00			45.00	3.00
RT 115	30.00			30.00	2.00
RT 115L		30.00		30.00	1.00
RT 121	45.00			45.00	3.00
RT 131	30.00			30.00	2.00
RT 131L		30.00		30.00	1.00
RT 135			135.00	135.00	3.00
RT 146			135.00	135.00	3.00
RT 156			135.00	135.00	3.00
RT 230	30.00			30.00	2.00
RT 230L		30.00		30.00	1.00
RT 255	30.00			30.00	2.00
RT 260	30.00			30.00	2.00
RT 266			180.00	180.00	4.00
RT 276			180.00	180.00	4.00
RT 295	45.00			45.00	3.00
RT 297			135.00	135.00	3.00
Anatomy and Physiology With Lab	90.00	60.00		150.00	8.00
Information Literacy	15.00			15.00	1.00
English Composition or Literature	45.00			45.00	3.00
Speech	45.00			45.00	3.00
Computer Applications	60.00			60.00	4.00
Mathematics (College Algebra or Above)	60.00			60.00	4.00
Social or Behavioral Science	45.00			45.00	3.00
Personal/Professional Development	30.00			30.00	2.00
Totals	765.00	150.00	900.00	1,815.00	76.00

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at <http://www.herzing.edu/academics/radiologic-technology>