

ASSOCIATE OF SCIENCE IN RADIOLOGIC TECHNOLOGY (ASRT)

(Please see the *Undergraduate Program Offerings by Campus* chart in the catalog for a list of Herzing campuses offering this program.)

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 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 OUTCOMES

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

1. Provide patient care and education during radiographic procedures in compliance with ASRT practice standards and within the ASRT scope of practice.
2. Articulate radiographic terminology utilized within radiographic procedures and reports.
3. Describe the fundamental principles of radiation, x-ray production, and radiation interaction with matter.
4. Identify appropriate radiographic procedures to demonstrate anatomical structures and pathology as indicated by patient condition.
5. Apply basic principles of radiation safety for radiographers, patients, and the public.
6. Describe the basic concepts and techniques of pharmacology including diagnostic contrast agents and intravenous medication.
7. Perform basic radiographic procedures safely and effectively including proper patient positioning and correct image production, analysis, and storage.
8. Operate radiographic equipment properly and safely, including radiographic, fluoroscopic, mobile and tomographic equipment.
9. Identify appropriate actions for situations requiring critical thinking, applying legal and ethical concepts as well as clinical standards for decision making.

POTENTIAL OCCUPATIONAL TITLES

Potential occupational titles for this program include, but are not limited to, radiologic technologist.

PROGRAM CONTENT

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

REQUIRED SUPPORT COURSE

1.00 semester credit hour is required.

Course Number	Course Name	Prerequisites/Corequisites	Semester Credit Hours
AS 144	Medical Terminology	None	1.00

REQUIRED COURSES

All courses, 47.00 semester credit hours, are required.

Course Number	Course Name	Prerequisites/Corequisites	Semester Credit Hours
RT 102	Introduction to Radiography	SC 145 and SC 145L	3.00
RT 107	Methods of Patient Care	SC 145 and SC 145L	3.00
RT 112	Principles of Radiography I	MA 107, RT 102 and RT 107	3.00
RT 115	Radiographic Procedures I	SC 245 and SC 245L/ Corequisite RT 115L	2.00

Course Number	Course Name	Prerequisites/Corequisites	Semester Credit Hours
RT 115L	Radiographic Procedures I Lab	SC 245 and SC 245L/ Corequisite RT 115	1.00
RT 122	Principles of Radiography II	RT 112	4.00
RT 131	Radiographic Procedures II	RT 102 and RT 115 and RT 115L/ Corequisite RT 131L	2.00
RT 131L	Radiographic Procedures II Lab	RT 102 and RT 115 and RT 115L/ Corequisite RT 131	1.00
RT 135	Radiologic Clinical Education I	RT 115 and RT 115L	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 and RT 131L/ Corequisite RT 230L	2.00
RT 230L	Radiographic Procedures III Lab	RT 131 and RT 131L/ Corequisite RT 230	1.00
RT 255	Radiologic Pathology	RT 122, RT 230, and RT 230L	2.00
RT 260	Cross-Sectional Anatomy	RT 102 and RT 122	2.00
RT 267	Radiologic Clinical Education IV	RT 156	3.00
RT 277	Radiologic Clinical Education V	RT 267	3.00
RT 295	Radiography Review	Final semester	3.00
RT 297	Radiologic Clinical Education VI	RT 277	3.00

GENERAL EDUCATION PREREQUISITES

The following general education prerequisite courses must be completed with a grade of C (70%) 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 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
- 4.00 Semester Credit Hours in Computer Applications
- 3.00 Semester Credit Hours in English Composition or Literature
- 1.00 Semester Credit Hours in Information Literacy
- 4.00 Semester Credit Hours in Mathematics (College Algebra or above)
- 3.00 Semester Credit Hours in Social or Behavioral Science
- 3.00 Semester Credit Hours in Speech

* 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	Prerequisites/Corequisites	Semester Credit Hours
PD 121	Professional Development I	None	1.00
PD 202	Professional Development II	None	1.00

Distribution of Contact Hours by Course					
Course or Category	Lecture	Lab	Clinical	Total Contact Hours	Credits
AS 144	15.00			15.00	1.00
RT 102	45.00			45.00	3.00
RT 107	45.00			45.00	3.00
RT 112	45.00			45.00	3.00
RT 115	30.00			30.00	2.00
RT 115L		30.00		30.00	1.00
RT 122	60.00			60.00	4.00
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 267			135.00	135.00	3.00
RT 277			135.00	135.00	3.00
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
Computer Applications	60.00			60.00	4.00
English Composition or Literature	45.00			45.00	3.00
Information Literacy	15.00			15.00	1.00
Mathematics (College Algebra or Above)	60.00			60.00	4.00
Personal/Professional Development	30.00			30.00	2.00
Social or Behavioral Science	45.00			45.00	3.00
Speech	45.00			45.00	3.00
Totals	795.00	150.00	810.00	1,755.00	76.00