

RADIOLOGIC TECHNOLOGY

Common Job Titles	Recent Employers	Salary Data	Placement Rate
Radiologic Technologist Mammography Technologist MRI/CT/Interventional Technologist	Hennepin County Medical Center Park Nicollet Clinics Allina Health North Memorial Health Care Fairview Southdale Hospital	\$62,800* Annual Average Salary	100%**

Program Description

The Radiologic Technology program prepares graduates who oversee X-rays, CT scans, and other radiologic procedures. They also manage radiology support staff in hospitals, clinics, and specialized imaging centers. Students learn to work directly with patients and physicians to create images of internal organs, bones, and tissues that are used to diagnose medical problems. Working in both classroom and lab settings, students gain the skills to use the latest in imaging technologies, including digital X-rays and CT scans. They also complete rotations in clinical settings.

Arts & Sciences curriculum supports the technical coursework by enhancing the students' communication, mathematics, and critical thinking skills.

Dunwoody's program is accredited by the Joint Review Committee on Education in Radiologic Technology.

Dunwoody College of Technology: a non-profit, private technical college since 1914.

Credential Earned	AAS Degree
Classes Offered	Day
Length of Program	2 years (4 semesters + 2 summer sessions)
Available Starts	Fall Semester; Spring Semester
Accreditation	Joint Review Committee on Education in Radiologic Technology (JRCERT)

Degree Requirements

RTEC1110	Introduction to Radiography
RTEC1120	Patient Care
RTEC1130	Radiographic Procedures I
RTEC1150	Clinical I
RTEC1220	Radiographic Procedures II
RTEC1230	Radiographic Procedures III
RTEC1240	Clinical II
RTEC1250	Clinical III
RTEC1140	Medical Terminology
RTEC1210	Radiologic Exposure
RTEC1310	Radiographic Procedures IV
RTEC1320	Clinical IV
RTEC2110	Radiologic Science
RTEC2121	Advanced Imaging
RTEC2130	Clinical V
RTEC2220	Radiologic Topics I
RTEC2230	Radiologic Topics II
RTEC2250	Clinical VI
RTEC2260	Clinical VII
RTEC2210	Radiation Biology & Protection
RTEC2240	Ethics in Healthcare
RTEC2310	Radiologic Topics III
RTEC2320	Clinical VIII
BIOL1230	Anatomy
BIOL1310	Physiology I
BIOL1320	Physiology II
BIOL1400	Human Disease
	Mathematics Elective
	Communications Elective
	Social Sciences Elective
	Humanities Elective

How to Apply

	dunwoody.edu
	612.374.5800
	info@dunwoody.edu

Course Descriptions

RTEC1110 Introduction to Radiography, 2 cr.

An overview of radiography and patient care. Orientation to the radiographic profession as a whole. Introduction to the skills required to perform radiologic procedures with an emphasis placed on the production and evaluation of quality radiographs. Topics include: equipment introduction, ethics, medical, and legal considerations; procedures and anatomy related to the chest and abdomen.

RTEC1120 Patient Care, 2 cr.

Examine the basic fundamentals required to assess a patient's condition, identify emergency situations, and respond to acute life threatening situations within their scope of practice. Determine the foundations of quality patient care and care management plans, both as an individual and as a vital team player. Emphasis is on fundamental principles, practices, and issues common to radiography.

RTEC1130 Radiographic Procedures I, 1 cr.

Develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the upper extremities, the shoulder girdle, and the lower extremities.

RTEC1150 Clinical I, 3 cr.

Introduction to the hospital clinical setting; provides an opportunity to participate in or observe radiographic procedures. Topics include: orientation to hospital or clinic areas and procedures, mobile/surgery, and radiography. Participate in and/or observe procedures related to chest and abdomen. Execution of radiographic procedures is conducted under direct and indirect supervision of experienced registered technologists.

RTEC1220 Radiographic Procedures II, 1 cr.

Develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the lower extremities, the pelvic girdle, and the spine.

RTEC1230 Radiographic Procedures III, 1 cr.

Develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the lumbosacral spine, the bony thorax, the cranium, facial bones, and sinuses; anatomy and procedures of the upper gastrointestinal (GI).

RTEC1240 Clinical II, 3 cr.

Continue learning experiences in the clinic or hospital setting. Topics include: equipment utilization, exposure techniques, participation in and/or observation of routine projections of the upper and lower extremities. Execution of radiographic procedures is conducted under direct and indirect supervision of experienced registered technologists.

RTEC1250 Clinical III, 3 cr.

Continue learning experiences in the clinic or hospital setting. Focus is on the pelvis, the spine, and common portable radiography procedures. Execution of radiographic procedures is conducted under direct and indirect supervision of experienced registered technologists.

RTEC1140 Medical Terminology, 1 cr.

Develop a medical vocabulary. Skills in spelling, pronunciation, and defining medical terms is emphasized.

RTEC1210 Radiologic Exposure, 1 cr.

Examine the factors that govern and influence the production of the radiographic image, includes exposure calculations.

RTEC1310 Radiographic Procedures IV, 1 cr.

Continue to develop the knowledge required to perform radiographic procedures. Topics include: anatomy and procedures of the lower gastrointestinal (GI), genitourinary (GU), the biliary system, and minor system procedures.

RTEC1320 Clinical IV, 3 cr.

Continue hospital or clinic setting work experience. Develop proficiency in executing procedures introduced in Radiographic Procedures. Focus is on bony thorax, cranial bone, facial bone, and sinuses. Examine common fluoroscopic procedures and common radiographic procedures in surgery. Execution of radiographic procedures is conducted under direct and indirect supervision of experienced registered technologists.

RTEC2110 Radiologic Science, 1 cr.

Concepts of basic radiographic physics and the basics of x-ray generating equipment.

RTEC2121 Advanced Imaging, 1 cr.

Equipment routinely utilized to produce diagnostic images, as well as various recording media and techniques. Topics include: Venipuncture; Image production in CT, MRI, IR, and other imaging modalities; special imaging considerations for geriatric, pediatric, trauma, and mobile imaging procedures; and sectional anatomy of the head, thorax, and abdomen.

RTEC2130 Clinical V, 6 cr.

Continues student learning experiences in the clinic or hospital setting; build on skills learned and competencies achieved in the previous semester. Topics include: common fluoroscopic, surgery, and portable radiography procedures. Execution of radiographic procedures will be conducted under direct and indirect supervision of experienced registered technologists.

RTEC2220 Radiologic Topics I, 1 cr.

A review of basic knowledge from previous courses to help the student prepare for the national certification examination. Topics include: image analysis, pathology, quality assurance, digital radiography, computers and PACS.

RTEC2230 Radiologic Topics II, 1 cr.

Quality assurance, digital imaging, image analysis, resume and career planning; a review of basic knowledge from previous courses to help the student prepare for the national certification examination.

RTEC2250 Clinical VI, 3 cr.

Continues student learning experiences in the clinic or hospital setting; build on skills learned and competencies achieved in the previous semester. Topics include: advanced radiographic anatomy; equipment utilization; exposure techniques; sterile techniques; participation in and/or observation of angiographic, interventional and specialty rotations including MRI and CT. Execution of radiographic procedures will be conducted under direct and indirect supervision of experienced registered technologists.

RTEC2260 Clinical VII, 3 cr.

Continues student learning experiences in the clinic or hospital setting; build on skills learned and competencies achieved in the previous semester. Topics include: advanced radiographic anatomy; equipment utilization; exposure techniques; sterile techniques; participation in and/or observation of angiographic, interventional and specialty rotations including MRI and CT. Execution of radiographic procedures will be conducted under direct and indirect supervision of experienced registered technologists.

RTEC2210 Radiation Biology & Protection, 1 cr.

Radiation detection and measurement, patient protection, personnel protection, absorbed dose equivalencies, agencies and regulations, introduction to radiation biology, cell anatomy, radiation/cell interaction and effects of radiation.

RTEC2240 Ethics in Healthcare, 1 cr.

Increase awareness of the many complex issues that face the healthcare industry; critically evaluate an issue taking into consideration all sides and opinions along with supporting reasoning

RTEC2310 Radiologic Topics III, 1 cr.

A review of basic knowledge from previous courses to help the student prepare for the national certification examination. Topics include: image analysis, image production and evaluation; radiographic procedures; anatomy, physiology, pathology, and terminology; equipment operation and quality control; radiation protection; and patient care and education.

RTEC2320 Clinical VIII, 3 cr.

Continues student learning experiences in the clinic or hospital setting; build on skills learned and competencies achieved in the previous semester. Includes participation in and/or observation of routine and special radiographic procedures. Execution of radiographic procedures will be conducted under direct and indirect supervision of experienced registered technologists.

Course Descriptions

BIOL1230 Anatomy, 4 cr.

Analyze the structure of the human body, molecular, cellular to organism level. Examine cell biology, integumentary, muscular, skeletal, neurological, digestive, respiratory, urinary, cardiovascular, endocrine, lymphatic, and reproductive body systems and the correlation/integration of the various systems to construct the human organism.

BIOL1310 Physiology I, 2 cr.

Analyze the functioning of the human body, molecular, cellular to organism level. Examine body systems, such as cell biology, muscular, skeletal, neurological, digestive and respiratory and the correlation/integration of the various systems in impacting the functioning of the human organism.

BIOL1320 Physiology II, 2 cr.

Analyze the functioning of the human body, molecular, cellular to organism level. Examine body systems such as urinary, body defenses, cardiovascular, endocrine, lymphatic, and reproductive and the correlation/integration of the various systems in impacting the functioning of the human organism.

BIOL1400 Human Disease, 4 cr.

Analysis of the disease conditions affecting the human body, including their pathological origin, signs and symptoms, pathological process, diagnostics, and treatment modalities.