**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.

<table>
<thead>
<tr>
<th>Credential Earned</th>
<th>AAS Degree</th>
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<tbody>
<tr>
<td>Classes Offered</td>
<td>Day</td>
</tr>
<tr>
<td>Length of Program</td>
<td>2 years (4 semesters + 2 summer sessions)</td>
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<tr>
<td>Available Starts</td>
<td>Fall Semester; Spring Semester</td>
</tr>
<tr>
<td>Accreditation</td>
<td>Joint Review Committee on Education in Radiologic Technology (JRCERT)</td>
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</tbody>
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**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
- RTEC2210 Radiologic Science
- RTEC2212 Advanced Imaging
- RTEC2213 Clinical V
- RTEC2220 Radiologic Topics I
- RTEC2230 Radiologic Topics II
- RTEC2250 Clinical VI
- RTEC2260 Clinical VII
- RTEC2220 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

**Recent Employers**

- Hennepin County Medical Center
- Park Nicollet Clinics
- Allina Health
- North Memorial Health Care
- Fairview Health Services

**Salary Data**

- $63,830* Annual Average Salary

**Placement Rate**

100%**


**Data reflects placement for AY2016-17 graduates indicating employment in their field of study within 6 months following graduation.

Full data calculations are available for review during College open hours Monday through Friday 8 a.m. to 4 p.m. CT at Career Services or contact careerservices@dunwoody.edu.

AY2018-19 Revised: 6.20.18

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**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 patient 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 clinical hospital 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 the 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.