



## KETTERING COLLEGE OF MEDICAL ARTS

# Advanced Imaging

### Certificate programs



## career info

Some radiographers specialize in computed tomography (CT), and are sometimes referred to as CT technologists. CT scans produce a substantial amount of cross-sectional x-rays of an area of the body. From those cross-sectional x-rays, a three-dimensional image is made.

Radiographers also can specialize in Magnetic Resonance Imaging as an MR technologist. MR uses non-ionizing radio frequency to produce multiple cross-sectional images to create a 3-dimensional image.

Cardiovascular technologists and technicians assist physicians in diagnosing and treating cardiac (heart) and peripheral vascular (blood vessel) ailments.

### About the Programs

Advanced imaging is a specialized field in radiologic technology that includes computed tomography (CT), magnetic resonance imaging (MRI), vascular interventional technology (VIT), and cardiovascular interventional technology (CIT).

Students entering Kettering College as graduates of either an associate's degree or certificate program in radiologic technology, nuclear medicine, radiation therapy, or diagnostic medical sonography may continue their education with several certificate programs. Certificate programs in CT, MRI, vascular interventional technology, or cardiovascular interventional technology are offered as one-semester courses of study. These may be taken individually or as paired programs that may lead to the BS degree. For more information, see the section of the *Academic Bulletin* that addresses the BS in Health Professions, advanced imaging track.

All advanced imaging programs require practicum experience in the semester in which the clinical aspects courses are taught. Each student will be evaluated on classroom and practicum experiences. Completion of the clinical portions of these certificates is competency-based. To pass each clinical course, the student must complete all competencies required by the ARRT. See course syllabus for details.

The advanced imaging programs prepare the students for the American Registry of Radiologic Technologists' post-primary certification examinations in CT, MRI, VIT, and CIT. Didactic and clinical courses help prepare but cannot guarantee eligibility for these examinations. For more information on the eligibility requirements, refer to the ARRT Web site: [www.arrt.org](http://www.arrt.org).

### Approval and Accreditation

Kettering College is accredited by the North Central Association of Colleges and Schools, approved by the Seventh-day Adventist Board of Regents, and authorized by the Ohio Board of Regents.

## ADMISSION BASICS

**Applicants to the advanced imaging majors will satisfy the following criteria to be considered for admission:**

1. Meet all admission requirements for Kettering College of Medical Arts.
2. Provide evidence of graduation with at least a 2.30 GPA from a radiologic sciences program accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) - **OR** - Provide evidence of certification by ARRT, ARDMS, or NMTCB in radiologic technology, nuclear medicine technology, radiation therapy, or sonography.
3. Request and pay to have a background check performed by a College-approved service no more than six months prior to beginning the clinical experience. Please contact the admissions office for approved service contact information. Commencement of the clinical portion of the program is contingent upon successful clearance of the background check.

Note: It is recommended that all students entering radiologic sciences and imaging programs have computer skills that enable them to use Windows, word processing, spreadsheet and PowerPoint operations. Please refer to specific course descriptions for more details.

# Certificates in Advanced Imaging

## CERTIFICATE PROGRAMS OF STUDY

### Certificate in computed tomography (CT)

BIOL 263	Sectional Anatomy	3
ADIM 300	CT Theory*	3
ADIM 328	Clinical Aspects of CT*	3
ADIM 304	Practicum I (CT)	4
<b>TOTAL</b>		<b>13</b>

\* Note: ARRT Registry review material will be incorporated into this course

### Certificate in magnetic resonance imaging (MRI)

BIOL 263	Sectional Anatomy	3
ADIM 303	MRI Theory*	4
ADIM 428	Clinical Aspects of MRI	3
ADIM 314	Practicum II (MRI)	4
<b>TOTAL</b>		<b>14</b>

\* Note: ARRT Registry review material will be incorporated into this course

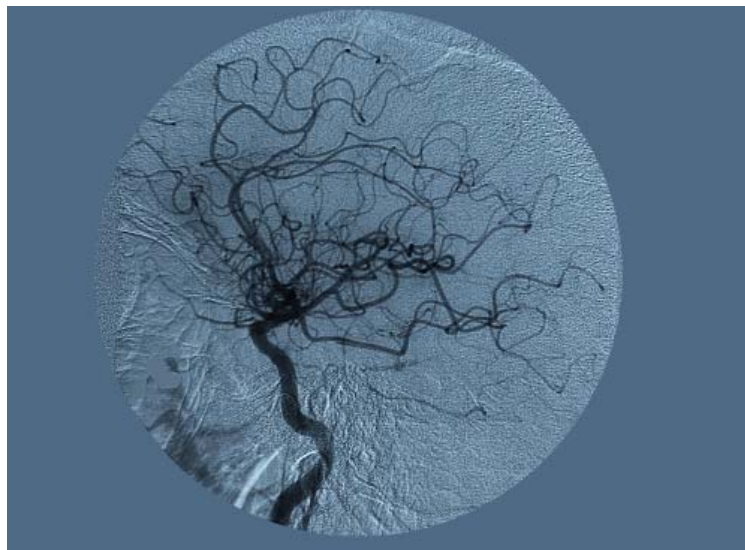
### Certificate in vascular interventional technology (VIT)

ADIM 310	Angiography I*	3
ADIM 324	Practicum III (General Angiography)	4
HEPR 360	Advanced Cardiac Life Support (Proficiency or Credit)	0-1
RTCA 210	Advanced Patient Care	2
<b>TOTAL</b>		<b>9-10</b>

\* Note: ARRT Registry review material will be incorporated into this course

### Certificate in cardiovascular interventional technology (CIT)

ADIM 410	Angiography II	4
ADIM 434	Practicum IV (Cardiac Angiography)	4
RESA 320	Cardiopulmonary Monitoring	3
<b>TOTAL</b>		<b>11</b>



  
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