

ADVANCED IMAGING



ABOUT THE PROFESSION

Some radiographers specialize in computed tomography (CT), and are sometimes referred to as CT technologists. CT scans produce a substantial amount of cross-sectional images of an area of the body. From those cross-sectional images, 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 assist physicians in diagnosing and treating cardiac (heart) and peripheral vascular (blood vessel) ailments.



Find us on:





CERTIFICATE PROGRAMS

ABOUT THE CERTIFICATES

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). The RSI department at Kettering College offers certificates in MRI, CT, vascular interventional technology (VIT), and cardiovascular interventional technology (CIT). Students entering Kettering College as graduates of an associate degree or certificate program in radiologic technology, nuclear medicine, radiation therapy, or diagnostic medical sonography may continue their education with certificate programs in CT, MRI, vascular interventional technology, or cardiovascular interventional technology as one-semester courses of study.

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.

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 for these examinations. For more information on the eligibility requirements, refer to the ARRT website: www.arrt.org.

APPROVAL AND ACCREDITATION

Kettering College is accredited by the North Central Association of Colleges and Schools, approved by the Adventist Accrediting Association (AAA), and authorized by the Ohio Board of Regents.

Admission Basics

Applicants to the advanced imaging majors at Kettering College will satisfy the following criteria to be considered for admission:

- 1. Meet all admission requirements for Kettering College.
- 2. Provide evidence of current certification by ARRT, ARDMS, or NMTCB in radiologic technology, sonography, nuclear medicine, or radiation therapy. Only ARRT-certified radiographers are permitted to perform diagnostic computed tomography (CT) procedures in the state of Ohio; consequently, Kettering accepts only ARRT-certified radiographers into the CT program.
- 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.
- 4. Sectional Anatomy is a prerequisite course for the CT and MRI programs.

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.

For more information, see www.KC.edu/ImagingCert, contact the RSI office at (937) 395-8601 x55636, or via e-mail at taryn.talbott@kc.edu.

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CERTIFICATES IN ADVANCED IMAGING

PROGRAMS OF STUDY

Certificate in Computed Tomography (CT)

The CT program is offered on campus during fall semester and online during winter and summer semesters. NOTE: Only ARRT-certified radiographers are permitted to perform diagnostic CT procedures in the state of Ohio; consequently, Kettering accepts only ARRT-certified radiographers into the CT program.

	TOTAL	10
ADIM 304	Practicum I (CT)	4
ADIM 328	Clinical Aspects of CT*	3
ADIM 300	CT Theory*	3

^{*} ARRT Registry review material will be incorporated into this course.

Certificate in Magnetic Resonance Imaging (MRI)

	TOTAL	11
ADIM 314	Practicum II (MRI)	4
ADIM 428	Clinical Aspects of MRI	3
ADIM 303	MRI Theory*	4

^{*} ARRT Registry review material will be incorporated into this course.

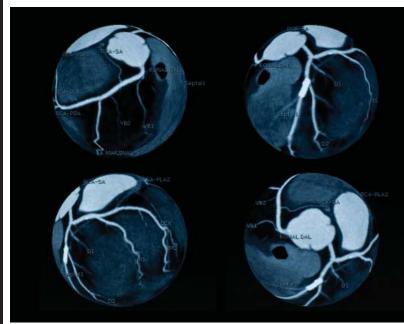
Certificate in Vascular Interventional Technology (VIT)

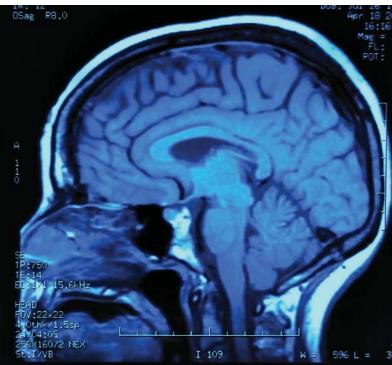
	TOTAL	<i>7</i> -11
ADIM 395	Variable Independent Clinical (optional)	1-4
ADIM 324	Practicum III (General Angiography)	4
ADIM 310	Angiography I*	3

^{*} ARRT Registry review material will be incorporated into this course.

Certificate in Cardiovascular Interventional Technology (CIT)

	TOTAL	11
RESA 320	Cardiopulmonary Monitoring	3
ADIM 434	Practium IV (Cardiac Angiography)	4
ADIM 410	Angiography II	4







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