



## 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.

Cardiovascular technologists assist physicians in diagnosing and treating cardiac (heart) ailments.

Vascular interventional technologists assist and aid physician with a variety of procedures in peripheral vascular disease.



# ADVANCED IMAGING

## CERTIFICATES IN ADVANCED IMAGING

For more info see [KC.edu/imagingcert](http://KC.edu/imagingcert)

## About the Certificates

We have an above average first-time registry pass rate as well as job placement for those actively seeking employment. Each modality (CT, MRI, VIT, & CIT) have been deemed by the ARRT ([www.arrt.org](http://www.arrt.org)) as, "meets the ARRT structural education requirements for certification and registration." This approval meets a new requirement to sit for the registry by the ARRT mandatory as of January 2016. 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). **All certificates are offered online only. The certificates in VIT and CIT are 16 week programs. The CT certificate can be obtained in 10 weeks. The MRI certificate can be obtained in one and a half semesters.** Students entering Kettering College as graduates of an associate degree in radiologic technology may continue their education in any of the four modalities. Those students with nuclear medicine, radiation therapy, or diagnostic medical sonography may continue their education with a certificate in MRI.

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 College including some items from ARRT. Please refer to bulletin for modality specific information.

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.

## Approval & Accreditation

Kettering College is accredited by the Higher Learning Commission, approved by the Adventist Accrediting Association (AAA), and authorized by the Ohio Board of Regents. All Advanced Imaging Modalities meet ARRT structural educational requirements for certification and registration.

## 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, diagnostic medical sonography, nuclear medicine, or radiation therapy. Only ARRT-certified radiographers are permitted to perform diagnostic computed tomography (CT), VIT or CIT procedures in the state of Ohio; consequently Kettering accepts only ARRT-certified radiographers into the CT, VIT, & CIT programs.
3. Drug test is required per clinical site.
4. 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.
5. Sectional anatomy is a prerequisite course for the CT and MRI programs. Transfer sectional anatomy must meet content requirements.

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

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### CERTIFICATE IN COMPUTED TOMOGRAPHY (CT) 10 WEEKS

The CT program is offered online during summer semesters.

ADIM 300	CT Theory*	3
ADIM 328	Clinical Aspects of CT*	3
ADIM 404	Practicum I (CT)	3
TOTAL		9

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

### CERTIFICATE IN MAGNETIC RESONANCE IMAGING (MRI) 1.5 SEMESTERS

The MRI program is offered online for one and a half semesters during the fall/winter terms.

ADIM 305	MRI Theory*	6
ADIM 425	Clinical Aspects of MRI*	5
ADIM 315	Practicum II (MRI)	3
TOTAL		14

\* ARRT Registry review material and MRI Simulator will be incorporated into this course.

MRI offered:

Fall Cohort 1 part 1 - online - 16 weeks

Winter (half semester) Cohort 1 part 2 - online - 8 weeks

### CERTIFICATE IN VASCULAR INTERVENTIONAL TECHNOLOGY (VIT) 16 WEEKS

The VIT program is offered online during fall semesters. Subject to student minimum enrollment.

ADIM 311	VIT*	3
ADIM 321	Practicum III (VIT)	3
TOTAL		6

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

NOTE: Only ARRT-certified radiographers are permitted to perform VIT procedures in the state of Ohio; consequently, Kettering College accepts only ARRT-certified radiographers into the VIT program.

### CERTIFICATE IN CARDIOVASCULAR INTERVENTIONAL TECHNOLOGY (CIT) 16 WEEKS

The CIT program is offered online during winter semesters.

ADIM 413	CIT*	5
ADIM 432	Practicum IV (CIT)	3
ADIM 360	ACLS (as needed/required)	1
TOTAL		8-9

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

NOTE: Only ARRT-certified radiographers are permitted to perform CIT procedures in the state of Ohio; consequently, Kettering College accepts only ARRT-certified radiographers into the CIT program.

\* 3-11 credit hour range depending on modality clinical hours.