Advanced Imaging

Online Bachelor of Science Completion Degree

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 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 Degree

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 an associate degree or certificate program in radiologic technology, nuclear medicine, radiation therapy, or diagnostic medical sonography may continue their education with an online Bachelor of Science in Health Sciences completion degree. Two areas of emphasis are offered:

- **Health sciences with emphasis in advanced imaging:** The registered technologist will begin with one year (two semesters) in the advanced imaging technologies of computed tomography (CT) and magnetic resonance imaging (MRI), or vascular interventional technology (VIT) and cardiovascular interventional technology (CIT). The student must complete all core requirements in the arts and sciences and health sciences courses to meet the requirements for the BS degree.
- **Health sciences with emphasis in education or management:** A course of study in arts and sciences and health sciences that will complete the BS degree requirements but without the advanced imaging courses. Visit www.KC.edu/BSHS for more information on this course of study.

Graduates of an accredited RT program who do not have an associate degree must complete all AS degree core requirements before beginning the bachelor's completion process. Certification as an ARRT RT is required to be admitted into the advanced imaging tracks.

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 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, medical sonography, nuclear medicine, or radiation therapy. The state of Ohio requires ARRT(R) certification to work in computed tomography.

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 about the BS completion in advanced imaging, see www.KC.edu/BSCompRSI or call (937) 395-8601 x55624.

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Kettering College
Kettering Medical Center

Find us on:

Bachelor of Science in Health Sciences - Advanced Imaging

PROGRAM OF STUDY

Arts & Sciences degree core
(18-19 hours to meet core requirements)

These courses may be taken at Kettering College or may be transferred from other schools. See www.KC.edu/transfercredit for more information.

Humanities	(6 hours)	
Elective courses		
Religion	(6 hours)	
RELP 315	Spirituality in Healing and Health Care	2
RELX	upper division elective	2
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Mathematics	(4 hours)	
MATH 215	Probability and Statistics	4
Social Sciences	(3 hours)	
SOCI 375	Cultural Diversity in Health Care	3
Natural Sciences	(3 hours)	
BIOL 263	Sectional Anatomy	3
	(advanced imaging tracks only, unless previously taken)	

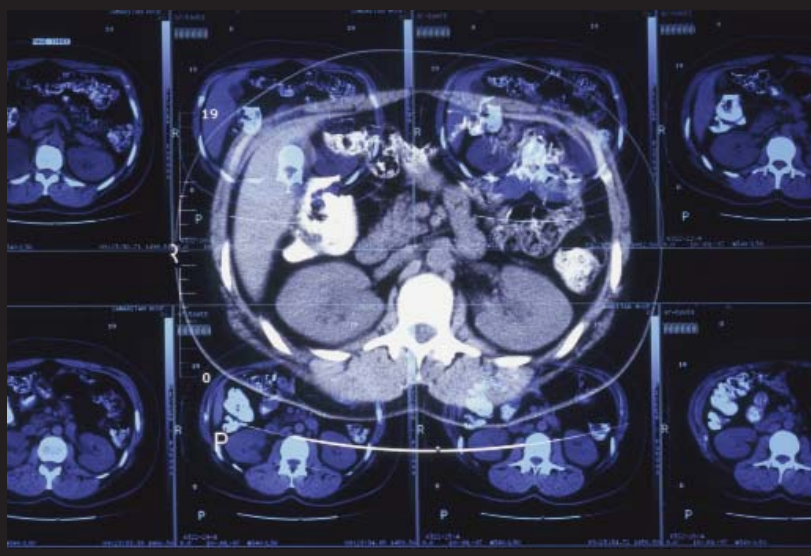
Health sciences courses: 18 hours in HESC core, required emphasis courses (see below), and 6 additional elective courses, depending on emphasis. Elective credits are dealt with on a case-by-case basis.

Health Sciences core courses
(18 hours required)

HESC 300	Introduction to Health Sciences Program	1
HESC 310	Health Care Economics and Finance	3
HESC 318	Introduction to Health Professions Research	3
HESC 340	Legal and Ethical Considerations in Health Care	3
HESC 348	Concepts of Management and Leadership in Health Care	3
HESC 415	Health Care Informatics Applications for Health Professions	1
HESC 435	Community Health Perspectives	3
HESC 481	Capstone/Senior Project	1

Health Sciences advanced imaging emphasis
***Sectional track* (21 hours)**

ADIM 300	CT Theory	3
ADIM 304	Practicum (CT)	4
ADIM 328	Clinical Aspects of CT	3
ADIM 303	MRI Theory	4
ADIM 314	Practicum (MRI)	4
ADIM 428	Clinical Aspects of MRI	3



Health Sciences advanced imaging emphasis
***Vascular track* (18 hours)**

ADIM 310	Angiography I	3
ADIM 324	Practicum III (vascular interventional technology)	4
ADIM 410	Angiography II	4
ADIM 434	Practicum IV (cardiovascular interventional technology)	4
RESA 320	Cardiopulmonary Monitoring	3

Additional Health Sciences electives
(6 hours required)

Electives are available based on the emphasis and health profession of the student. Advisors will assist the student in choosing the best curriculum emphasis, based on past health professional experience and future career planning.

DEGREE TOTAL CREDIT HOURS

Advanced imaging emphasis - vascular track	55
Advanced imaging emphasis - sectional track	58

KETTERING COLLEGE
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Learn more about Kettering College's bachelor's completion in advanced imaging at www.KC.edu/BSCompRSI

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