



KETTERING COLLEGE OF MEDICAL ARTS

Advanced Imaging

Bachelor of Science in Health Professions



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 Program

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 pursuing the BS in Health Professions degree in the RSI department at Kettering College may choose one of two tracks:

Advanced imaging track: The registered or registry-eligible 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 traditional method of receiving education and experience in this group is by registration in CT and MRI semesters or VIT and CIT semesters. It is possible to create nontraditional pairings of these programs, but this will require the student to submit a proposal and rationale for approval. The student must complete all core requirements in the arts and sciences and health professions courses to meet the requirements for the BS degree. (See the advanced imaging track description in the *Academic Bulletin*.)

Health care professional studies track: A course of study in arts and sciences and health professions that will complete the BS degree requirements but without the advanced imaging courses. See the degree requirements section of the *Academic Bulletin* for more information.

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 BS in health professions, advanced imaging major, must meet the following requirements 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)
3. Provide evidence of certification by ARRT, ARDMS, or CNMTB in radiologic technology, nuclear medicine technology, radiation therapy, or sonography.
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.

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

2009-10

For More Information

For more information, see www.kcma.edu. To schedule an appointment, call (937) 298-3399 ext. 55620.

Bachelor of Science in Health Professions, Advanced Imaging

BS IN HEALTH PROFESSIONS,

Advanced Imaging

Sectional imaging technology (SI)

Total hours/credits required for degree: 68 minimum

(42 of the 68 must be upper-division)

Core credits	22
HEPR credits	24
ADIM credits	20-21
Elective credits	2

Degree core

Humanities (6 hours)

Elective courses

Religion (6 hours)

RELX 315	Spirituality in Healing and Health Care	2
RELX	upper division elective	2
RELX	upper division elective	2

Mathematics (4 hours)

MATH 215	Probability and Statistics	4
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Social sciences (3 hours)

Social sciences elective	3
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Natural sciences (3 hours)

BIOL 263	Sectional Anatomy	3
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Health professions cognates

Health professions (24 hours)

HEPR 310	Health Care Economics and Finance	3
HEPR 330	Community Health Perspectives	3
HEPR 340	Legal and Ethical Considerations in Health Care	3
BIOL 350	Pathophysiology	3
HEPR 360	Advanced Cardiac Life Support	0-1
HEPR 375	Cultural Diversity in Health Care	3
HEPR 410	Health Care Statistics and Research	3
HEPR 380	Introduction to Health Care Professional Studies	1
HEPR 480	Capstone/Senior Project	2
HEPR Elective		2-3

General elective 2

Advanced imaging cognates

Sectional imaging technologies (21 hours)

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

BS IN HEALTH PROFESSIONS,

Advanced Imaging

Cardiovascular interventional technology (CIT)

Total hours/credits required for degree: 68 minimum

(42 of the 68 must be upper-division)

Core credits	22
HEPR credits	24
ADIM credits	20-21
Elective credits	2

Degree core

Humanities (6 hours)

Elective courses

Religion (6 hours)

RELX 315	Spirituality in Healing and Health Care	2
RELX	upper division elective	2
RELX	upper division elective	2

Mathematics (4 hours)

MATH 215	Probability and Statistics	4
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Social sciences (3 hours)

Social sciences elective	3
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Natural sciences (3 hours)

BIOL 263	Sectional Anatomy	3
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Health professions cognates

Health professions (24 hours)

HEPR 310	Health Care Economics and Finance	3
HEPR 330	Community Health Perspectives	3
HEPR 340	Legal and Ethical Considerations in Health Care	3
BIOL 350	Pathophysiology	3
HEPR 360	Advanced Cardiac Life Support	0-1
HEPR 375	Cultural Diversity in Health Care	3
HEPR 410	Health Care Statistics and Research	3
HEPR 380	Introduction to Health Care Professional Studies	1
HEPR 480	Capstone/Senior Project	2
HEPR Elective		2-3

General elective 2

Advanced imaging cognates

Vascular imaging technologies (20 hours)

ADIM 310	Angiography I	3
ADIM 324	Practicum III	4
ADIM 410	Angiography II	4
ADIM 434	Practicum IV	4
RESA 320	Cardiopulmonary Monitoring	3
RTCA 210	Advanced Patient Care	2



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