



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 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 KCMA with an associate degree or its equivalent in radiologic technology, nuclear medicine, radiation therapy, or diagnostic medical sonography may continue their education by pursuing a BS in Health Professions degree. Two tracks are offered:

Advanced imaging track: 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 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, 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.

2010-11

For More Information

Visit www.kcma.edu or call (937) 298-3399 ext. 55696.

Bachelor of Science in Health Professions, Advanced Imaging

BS IN HEALTH PROFESSIONS,

Advanced Imaging

Sectional imaging technology (SI)

Total hours/credits required for degree:

67 minimum

(at least 42 must be upper-division)

Degree core credits	22
HEPR credits	24
ADIM credits	21

Degree core

Humanities (6 hours)	6
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
Social sciences (3 hours)	
SOCI 375 Cultural Diversity in Health Care	3
Natural sciences (3 hours)	
BIOL 263 Sectional Anatomy	3

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 348 Concepts of Management & Leadership in Health Care	3
HEPR 360 Advanced Cardiac Life Support	0-1
HEPR 380 Introduction to Health Care Professional Studies	1
HEPR 410 Health Care Statistics and Research	3
HEPR 415 Health Care Informatics Applications for Health Professions	1
HEPR 481 Capstone/Senior Project	1
HEPR Elective	3

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:

66 minimum

(at least 42 must be upper-division)

Degree core credits	22
HEPR credits	24
ADIM credits	20

Degree core

Humanities (6 hours)	6
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
Social sciences (3 hours)	
SOCI 375 Cultural Diversity in Health Care	3
Natural sciences (3 hours)	
BIOL 263 Sectional Anatomy	3

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 348 Concepts of Management & Leadership in Health Care	3
HEPR 360 Advanced Cardiac Life Support	0-1
HEPR 380 Introduction to Health Care Professional Studies	1
HEPR 410 Health Care Statistics and Research	3
HEPR 415 Health Care Informatics Applications for Health Professions	1
HEPR 481 Capstone/Senior Project	1
HEPR Elective	3

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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