ALLIED HEALTH | BACHELOR OF SCIENCE IN MEDICAL DIAGNOSTIC IMAGING

Increased technology has prompted many hospitals to seek to employ RTs who have been trained in two or more skilled areas. This program provides you the opportunity to pursue cross-training in various areas of advanced imaging. During different times of the year, you may be able to attend course sequences in modalities such as computed tomography (CT), ultrasound (US), cardiovascular-interventional technology (CVIT), mammography (M), magnetic resonance imaging (MRI), or bone densitometry (BD). This degree is also available online.

Program Summary

The B.S. in Medical Diagnostic Imaging requires a minimum of 120 Credit Hours for graduation, including:

Code	Title	Hours
General Education		34
Cognate courses		29
Medical Diagnostic I	maging Core Courses	30
Open Electives ¹		27
Total Hours		120

Open electives are the credit hours required to reach a minimum of 120 total hours and 45 upper-level hours. The number listed assumes all courses are completed at FHSU as listed. This number may vary if students transfer courses, or have individual substitutions allowed.

Students should speak with their advisor if either situation applies to determine if the number will vary, and to ensure they enroll in a minimum of 45 upper-level hours.

Students entering within 1 year of high school graduation will take UNIV 101 Freshman Seminar and may apply that hour in the open elective category.

Program Requirements

General Education

All undergraduate degrees require completion of the Kansas Systemwide General Education (https://catalog.fhsu.edu/general-education/).

Courses identified with ^{GE} on this page may satisfy a general education requirement in addition to the identified degree requirement. Students who apply a degree requirement to satisfy a general education requirement will typically add an equal number of hours to the the university elective category. This flexibility may allow you to complete a minor or certificate within the 120 hour degree. Transfer students and students majoring in programs with approved exceptions (https:// www.fhsu.edu/general-education/documents/fhsu-gen-ed-transferexceptions-explainer1.pdf) are especially encouraged to select these courses in completing General Education requirements to maximize the likelihood of completing the degree with 120 credit hours.

Code	Title	Hours
General Education		34-35

Code	Title	Hours
Department Cognate Courses (required)		
ENG 101	English Composition I	3
ENG 102	English Composition II	3
COMM 100	Fundamentals of Oral Communication	3
BIOL 100	Human Biology	3
BIOL 102	Laboratory Experiences in Biology	1
BIOL 230	Anatomy and Physiology I	3
BIOL 230L	Anatomy and Physiology I Laboratory	1
BIOL 231	Anatomy and Physiology II	3
BIOL 231L	Anatomy and Physiology II Laboratory	1
BIOL 245	Medical Terminology	2
MATH 110	College Algebra	3
Total Hours		26

Required Cognates can be used to satisfy the first four areas of the General Education requirements; English, Communication, Math & Statistics, and Natural & Physical Sciences.

Code	Title	Hours	
Department/Major Requirements			
Select a minimum of	30 credits from the following:	30	
MDI 410	Cross-Sectional Anatomy: Normal		
MDI 411	Sectional Pathology & Variant Anatomy		
MDI 412	Computed Tomography Procedures		
MDI 413	Computed Tomography Physics & Instrumentation		
MDI 414	Medical Imaging Clinical Preceptorship		
MDI 417	MRI Physics and Instrumentation		
MDI 418	Cardiovascular-Interventional Technology		
MDI 419	Mammography for Radiologic Technologists		
MDI 420	Leadership and Management of Radiology		
MDI 422	Advanced Patient Care for Imaging Professionals		
MDI 423	Bone Densitometry Techniques		
MDI 424	Advanced Mammography		
MDI 425	Digital Mammography		
MDI 426	Advanced Cardiovascular Interventional Technology		
MDI 427	CVIT Pathology and Case Review		
MDI 428	Principles of Diagnostic Medical Sonography		
MDI 430	PACS Administration		
MDI 431	MRI Procedures		
MDI 432	Managing Change in Healthcare		
MDI 433	Emerging Issues in Health Care		
Total Hours		30	

Total Hours

In addition to the prerequisite courses, all students must complete the KBOR General Education Program (https://www.fhsu.edu/generaleducation/).

Degree Requirements

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Code	Title		Hours	i
All bachelor d	legrees require:			
	n FHSU courses & 2.0 or irements prevail over th	n all coursework (Higher ne 2.0 when set)		1
A minimum o or A	f 30 hours earned from	FHSU with a grade of D, C, B,		:
	ompletion of an upper o iteracy course (Most m	5		- 1 1
A minimum o	of 45 hours of recognize	d upper division credit		

A minimum of 120 hours of recognized college credit

Degree Maps

Degree Ma	ha	
Course	Title	Hours
First Year		
Fall		
SGE010 - English Discipl	ine Area	3
SGE030 - Math Statistics	s Discipline Area	3
BIOL 245	Medical Terminology	2
UNIV 101	Freshman Seminar	1
SGE070 - Institutionally I	Designated Area: Personal and Professional Development	3
SGE020 - Communicatio	n Discipline Area	3
	Hours	15
Spring		
SGE010 - English Discipl	ine Area	3
SGE020 - Communicatio	n Discipline Area	3
Open Electives		3
	Hours	9
Second Year		
Fall		
SGE040 - Natural Physic	al Science Discipline Area	4
	Hours	4
Spring		
SGE060 - Arts Humanitie	es Discipline Area	3
	Hours	3
Third Year		
Fall		
SGE050 - Social Behavio	ral Sciences Discipline Area	3
	Hours	3
Spring		
SGE060 - Arts Humanitie	es Discipline Area	3
	Hours	3
Fourth Year		
Fall		
SGE050 - Social Behavio	ral Sciences Discipline Area	3
SGE070 - Institutionally I	Designated Area: Personal and Professional Development	3
	Hours	6
Spring		
SGE070 - Institutionally I	Designated Area: Critical Thinking	3
	Hours	3
	Total Hours	46

Academic Degree Maps are term-by-term sample course plans that specify milestones, courses, and special requirements that are necessary for facilitating on-time completion. Degree Maps are *examples* and are not prescriptive. Individualized choices such as concentration options, transfer credits, optional minors, advisory programs (certificates), etc. can alter the recommended coursework. Course offerings are subject to change. Students should consult with their academic advisors for additional guidance on course planning.

To determine courses to take in the directed choices (often listed as Program Elective Course) and directed elective course blocks see the overview tab for courses. To locate approved courses in General Education areas (Undergraduate Programs) see the general education section (https://catalog.fhsu.edu/general-education/) of the catalog.

The undergraduate course maps typically advise the most efficient route for students to complete the general education requirements. Courses that are required in the major may be listed as fulfilling relevant general education requirements. This will result in more open elective course hours in some maps than is listed on the degree overview page.