

RADIOLOGIC IMAGING SCIENCES - B.R.I.T.

Regional College

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www.kent.edu/regional-college

Description

The Bachelor of Radiologic and Imaging Sciences Technology degree is designed for students pursuing studies related to medical imaging.

Job opportunities for CT and MRI technologists, sonographers and therapists exist in hospitals, surgical centers, clinics, physician offices and other healthcare facilities. .

The Radiologic and Imaging Sciences major comprising the following concentrations:

- The **Computed Tomography** concentration uses specialized x-ray equipment to create sectional images of the human body. Each cross sectional image reveals complex information about body structures that are used for a variety of reasons (i.e., diagnostic, treatment planning, interventional or screening).
 - Computed Tomography concentration for students who completed an A.A.S. degree in Radiologic Technology, Nuclear Medicine or Radiation Therapy
 - Computed Tomography concentration for students who completed a hospital-based certificate or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Diagnostic Medical Sonography** concentration uses medical ultrasound (high frequency sound waves that produce images of internal structures) to diagnose a variety of conditions and diseases, as well as monitor fetal development.
 - Diagnostic Medical Sonography concentration for new students (freshmen) and students who completed an associate degree
 - Diagnostic Medical Sonography concentration for students who completed an A.A.S. degree in Radiologic Technology
 - Diagnostic Medical Sonography concentration for students who completed a hospital-based certificate program or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Magnetic Resonance Imaging** concentration uses a powerful magnet, radio waves, and computers to create sectional images of the human body. The images reveal complex information about body structures and the chemical changes that occur as a result of the onset of disease.
 - Magnetic Resonance Imaging concentration for students who completed an A.A.S. degree in Radiologic Technology, Nuclear Medicine or Radiation Therapy
 - Magnetic Resonance Imaging concentration for students who completed a hospital-based certificate or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Radiation Therapy** concentration uses specialized high energy treatment units to administer therapeutic doses of radiation to cancer patients.
 - Radiation Therapy concentration for new students (freshmen) and students who completed an associate degree
 - Radiation Therapy concentration for students who completed an A.A.S. degree in Radiologic Technology
 - Radiation Therapy concentration for students who completed a hospital-based certificate program or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination

Fully Offered At:

- Salem Campus

Accreditation

The B.R.I.T. degree in Radiologic Imaging Sciences (Radiation Therapy concentration only) is accredited by the Joint Review Committee on Education in Radiologic Technology.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Freshman Students on the Kent Campus: The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

Freshman Students on the Regional Campuses: Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

English Language Proficiency Requirements for International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

Transfer, Transitioning and Former Students: For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

Program Learning Outcomes

Graduates of the Computed Tomography concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills when performing computed tomography procedures.
2. Communicate effectively in oral and written form with patients, families and members of the health care team.

3. Perform Computed Tomography procedures successfully and consistent with entry-level requirements of a registered CT technologist. Successfully perform computed tomography procedures.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Graduates of the Diagnostic Medical Sonography concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills in the practice of diagnostic medical sonography.
2. Use oral and written communication skills with members of the health care team.
3. Successfully perform sonographic procedures consistent with entry-level requirements.
4. Determine the value of professional growth and development and conduct themselves in a professional manner.

Graduates of the Magnetic Resonance Imaging concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills when performing magnetic resonance imaging procedures.
2. Communicate effectively in oral and written form with patients, families and members of the health care team.
3. Perform Magnetic Resonance Imaging procedures successfully and consistent with entry-level requirements of a registered MRI technologist.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Graduates of the Radiation Therapy concentrations will be able to:

1. Use critical thinking and problem-solving skills in the practice of radiation therapy.
2. Effectively communicate in oral and written form with members of the health care team.
3. Successfully perform radiation therapy procedures consistent with entry-level requirements.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37

Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Program Requirements

- Computed Tomography Concentrations
- Diagnostic Medical Sonography Concentrations
- Magnetic Resonance Imaging Concentrations
- Radiation Therapy Concentrations

Computed Tomography Concentration Requirements

[BRIT-RIS-CTRT]
[BRIT-RIS-CTHA]

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	1
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	1
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3

RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Additional Requirements (courses do not count in major GPA)		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ¹		49
Additional Concentration Requirements (courses do not count in major GPA)		
Choose from the following: 7-9		
<i>Concentration for A.A.S. Radiologic Technology graduates</i>		
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) ²	
or BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) ²	
or BSCI 21020	ANATOMY AND PHYSIOLOGY II	
HED 14020	MEDICAL TERMINOLOGY	
<i>Cconcentration for for A.T.S. Radiologic Technology graduates (with certification)</i>		
BSCI 10001	HUMAN BIOLOGY (KBS)	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
or CS 10001	COMPUTER LITERACY	
or MIS 24053		
Kent Core Basic Sciences Laboratory		

Minimum Total Credit Hours: 120

¹ Most general elective credit hours will be fulfilled with courses earned for radiologic technology associate degree or hospital-based certificate (32 credit hours awarded for certificate).

² Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Diagnostic Medical Sonography Concentration Requirements

[BRIT-RIS-FRAS]
[BRIT-RIS-RTAS]
[BRIT-RIS-HATS]

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)		
RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
RIS 34042	ABDOMINAL SONOGRAPHY I	3
RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3

RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
RIS 34052	ABDOMINAL SONOGRAPHY II	3
RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
RIS 44074	VASCULAR SONOGRAPHY	2
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44084	ULTRASOUND IMAGE EVALUATION	1
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3

Additional Requirements (courses do not count in major GPA)		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ¹		34

Additional Concentration Requirements (courses do not count in major GPA)		
Choose from the following: 12-21		

<i>Concentration for A.S. Degree graduates or Freshman</i>		
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) ²	
BSCI 21020	ANATOMY AND PHYSIOLOGY II ²	
HED 14020	MEDICAL TERMINOLOGY	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
or CS 10001	COMPUTER LITERACY	
or MIS 24053		
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 12111	PHYSICS FOR HEALTH TECHNOLOGIES	
RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY (min C grade)	

<i>Concentration for A.A.S Radiologic Technology graduates</i>		
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) ²	
or BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) ²	
or BSCI 21020	ANATOMY AND PHYSIOLOGY II	
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
or CHEM 10055	MOLECULES OF LIFE (KBS)	
HED 14020	MEDICAL TERMINOLOGY	

<i>Concentration for A.T.S. Radiologic Technology graduates (with certification)</i>		
BSCI 10001	HUMAN BIOLOGY (KBS)	
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
or CHEM 10055	MOLECULES OF LIFE (KBS)	

IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS
or CS 10001	COMPUTER LITERACY
or MIS 24053	
Kent Core Basic Sciences (must include a laboratory)	

Minimum Total Credit Hours: 121

¹ For students with an associate degree or hospital-based certificate, most general elective credit hours will be fulfilled with courses earned for that degree (32 credit hours awarded for certificate).

² Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Magnetic Resonance Imaging Concentration Requirements

[BRIT-RIS-MRRT]

[BRIT-RIS-MRHA]

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in RIS all courses)		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44003	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	2
RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	2
RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	1
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Additional Requirements (courses do not count in major GPA)		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6

Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ¹	46

Additional Concentration Requirements (courses do not count in major GPA)

Choose from the following: 9-10

Concentration for A.A.S. Radiologic Technology graduates

BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) ²
or BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) ²
or BSCI 21020	ANATOMY AND PHYSIOLOGY II
HED 14020	MEDICAL TERMINOLOGY

Concentration for A.T.S. Radiologic Technology graduates (with certification)

BSCI 10001	HUMAN BIOLOGY (KBS)
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS
or CS 10001	COMPUTER LITERACY
or MIS 24053	
Kent Core Basic Sciences (must include a laboratory)	

Minimum Total Credit Hours: 120

¹ Most general elective credit hours will be fulfilled with courses earned for radiologic technology associate degree or hospital-based certificate (32 credit hours awarded for certificate).

² Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Radiation Therapy Concentration Requirements

[BRIT-RIS-RTFE]

[BRIT-RIS-RTAA]

[BRIT-RIS-RTHB]

Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)		
RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
RIS 34008	RADIATION THERAPY PHYSICS I	3
RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
RIS 44018	RADIATION THERAPY PHYSICS II	3
RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
RIS 44029	RADIATION THERAPY PATHOLOGY I	3
RIS 44038	RADIATION THERAPY PHYSICS III	3
RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44042	RADIATION THERAPY PATHOLOGY II	3
RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2

RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Additional Requirements (courses do not count in major GPA)		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ¹	36

Additional Concentration Requirements (courses do not count in major GPA)

Choose from the following: 10-21

Concentration for A.S. Degree graduates or Freshman

BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) ²
BSCI 21020	ANATOMY AND PHYSIOLOGY II ²
HED 14020	MEDICAL TERMINOLOGY
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS
or CS 10001	COMPUTER LITERACY
or MIS 24053	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)
or PHY 12111	PHYSICS FOR HEALTH TECHNOLOGIES
RIS 44000	INTRODUCTION TO RADIATION THERAPY
Kent Core Basic Sciences	

Concentration for A.A.S. Radiologic Technology graduates

BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) ²
or BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) ²
or BSCI 21020	ANATOMY AND PHYSIOLOGY II
CHEM 10050 & CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) and MOLECULES OF LIFE (KBS)
HED 14020	MEDICAL TERMINOLOGY

Concentration for A.T.S. Radiologic Technology graduates (with certification)

BSCI 10001	HUMAN BIOLOGY (KBS) ²
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)
or CHEM 10055	MOLECULES OF LIFE (KBS)
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS
or CS 10001	COMPUTER LITERACY
or MIS 24053	
Kent Core Basic Sciences Laboratory	

Minimum Total Credit Hours: 120

¹ For students with an associate degree or hospital-based certificate, most general elective credit hours will be fulfilled with courses earned for that degree (32 credit hours awarded for certificate).

² Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

Progression Requirements

To be able to register for Radiologic and Imaging Sciences (RIS) courses, students must be accepted to technical study. Acceptance to technical study is a selective process due to the limited number of students approved for each clinical education setting. Criteria for acceptance are the following:

- Completion of required non-radiologic and imaging sciences (RIS) courses, e.g., biology, chemistry, mathematics, psychology, Kent Core courses
- Minimum 2.750 overall GPA

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.000

- Students must complete all Radiologic and Imaging Sciences (RIS) courses with a minimum C grade.
- Students must complete all academic and clinical competencies in their core concentration.

Roadmaps

- Computed Tomography Concentration for A.A.S. Radiologic Technology graduates
- Computed Tomography Concentration for A.T.S. Radiologic Technology graduates (with certification)
- Diagnostic Medical Sonography Concentration for A.S. Degree graduates or Freshman
- Diagnostic Medical Sonography Concentration for A.A.S Radiologic Technology graduates
- Diagnostic Medical Sonography Concentration for A.T.S. Radiologic Technology graduates (with certification)
- Magnetic Resonance Imaging Concentration for A.A.S. Radiologic Technology graduates
- Magnetic Resonance Imaging Concentration for A.T.S. Radiologic Technology graduates (with certification)
- Radiation Therapy Concentration for A.S. Degree graduates or Freshman
- Radiation Therapy Concentration for A.A.S. Radiologic Technology graduates
- Radiation Therapy Concentration for A.T.S. Radiologic Technology graduates (with certification)

Computed Tomography Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Note: Students must have earned an AAS degree in Radiologic Technology (38 credit hours will be awarded). A 2.750 overall GPA is required for admission to this program.		
!	Technical requirements in Radiologic Technology	38
	Choose from the following:	6-8
	BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 1102C (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 21020 ANATOMY AND PHYSIOLOGY II	
	CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS)	3
	HED 14020 MEDICAL TERMINOLOGY	3
	MATH 11009 MODELING ALGEBRA (KMCR) or MATH 11010 or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	6
	Credit Hours	63
Semester One		
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Electives	3
	Credit Hours	12
Semester Two		
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Electives	6
	Credit Hours	15
Semester Three		
Note: Admission to Technical Study is required to enroll in RIS courses.		
!	RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
!	RIS 44004 COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	2
!	RIS 44021 PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
!	RIS 44030 COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
	RIS 44047 COMPUTED TOMOGRAPHY PROCEDURES I	1
!	RIS 44088 LEADERSHIP IN MEDICAL IMAGING	1
!	RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
	Credit Hours	13
Semester Four		
!	RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
!	RIS 44048 COMPUTED TOMOGRAPHY PROCEDURES II	2
!	RIS 44054 COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	2

!	RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
		Credit Hours	14
Semester Five			
!	RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
!	RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	1
		Credit Hours	3
		Minimum Total Credit Hours:	120

Computed Tomography Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Associate of Technical Studies in Radiologic Technology		32
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
	CHEM 10055	
CS 10001	COMPUTER LITERACY	3
	or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
	or MIS 24053	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
	or ALGEBRA FOR CALCULUS (KMCR)	
	MATH 11010	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirements		18
Credit Hours		66
Semester One		
Kent Core Requirements		3
General Electives		9
Credit Hours		12
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		1
General Electives		8
Credit Hours		12
Semester Three		
Note: Admission to Technical Study is required to enroll in RIS courses.		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	1
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
Credit Hours		13
Semester Four		
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3

RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		14
Semester Five		
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	1
Credit Hours		3
Minimum Total Credit Hours:		120

Diagnostic Medical Sonography Concentration for A.S. Degree graduates or Freshman

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester One		
Note: Students who have earned an Associate of Science degree will receive 25 credits and will not have to take general electives. A 2.750 cumulative GPA is required for admission to this program.		
CS 10001	COMPUTER LITERACY	3
	or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
	or MIS 24053	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
General Electives		3
Credit Hours		13
Semester Two		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
	or ALGEBRA FOR CALCULUS (KMCR)	
	MATH 11010	
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Three		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		12
Semester Four		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		4
Credit Hours		10
Semester Five		
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
General Electives		8
Credit Hours		12
Semester Six		
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
HED 14020	MEDICAL TERMINOLOGY	3

PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or PHYSICS FOR HEALTH TECHNOLOGIES	3-5
General Electives		3
Credit Hours		13
Third Summer Term		
RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY	1
Credit Hours		1
Semester Seven		
Note: Admission to Technical Study is required to enroll in RIS courses.		
! RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
! RIS 34042	ABDOMINAL SONOGRAPHY I	3
! RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
! RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
! RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours		14
Semester Eight		
! RIS 34052	ABDOMINAL SONOGRAPHY II	3
! RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
! RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
! RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		16
Fourth Summer Term		
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
! RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
! RIS 44084	ULTRASOUND IMAGE EVALUATION	1
Credit Hours		8
Semester Nine		
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
! RIS 44074	VASCULAR SONOGRAPHY	2
Credit Hours		6
Minimum Total Credit Hours:		120

Diagnostic Medical Sonography Concentration for A.A.S Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Note: Students must have earned an AAS degree in Radiologic Technology (34 credit hours from Radiologic Technology will be awarded). A 2.750 cumulative GPA is required for admission to this program.		
Technical requirements in Radiologic Technology		34
Choose from the following:		6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 1102C (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)		
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 21020 ANATOMY AND PHYSIOLOGY II		
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
HED 14020	MEDICAL TERMINOLOGY	3
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		6
Credit Hours		59
Semester One		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Two		
Note: Admission to Technical Study is required to enroll in RIS courses.		
! RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
! RIS 34042	ABDOMINAL SONOGRAPHY I	3
! RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
! RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
! RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours		14
Semester Three		
! RIS 34052	ABDOMINAL SONOGRAPHY II	3
! RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
! RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
! RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		16
Semester Four		
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2

RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
! RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
! RIS 44084	ULTRASOUND IMAGE EVALUATION	1
Credit Hours		8
Semester Five		
! RIS 44074	VASCULAR SONOGRAPHY	2
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
Credit Hours		6
Minimum Total Credit Hours:		121

Diagnostic Medical Sonography Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Note: Students must have graduated from a hospital-based certificate program in radiologic technology; successfully completed the certification exam for the American Registry of Radiologic Technology; and earned the ATS degree in Radiologic Technology (32 credit hours will be awarded). A 2.750 overall GPA is required for this program.		
Associate of Technical Studies in Radiologic Technology		32
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
CS 10001 or IT 11000 or MIS 24053	COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS or	3
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		18
Credit Hours		66
Semester One		
Kent Core Requirement		3
Kent Core Requirement		4
Kent Core Requirement		3
General Electives		1
Credit Hours		11
Semester Two		
Note: Admission to Technical Study is required to enroll in RIS courses.		
! RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
! RIS 34042	ABDOMINAL SONOGRAPHY I	3
! RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
! RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
! RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours		14
Semester Three		
! RIS 34052	ABDOMINAL SONOGRAPHY II	3
! RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
! RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
! RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		16
Semester Four		
RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
! RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3

! RIS 44084	ULTRASOUND IMAGE EVALUATION	1
Credit Hours		8
Semester Five		
! RIS 44074	VASCULAR SONOGRAPHY	2
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
Credit Hours		6
Minimum Total Credit Hours:		121

Magnetic Resonance Imaging Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Note: Students must have earned an AAS degree in Radiologic Technology (38 credit hours will be awarded). A 2.750 overall GPA is required for admission to this program.		
Technical requirements in Radiologic Technology		38
Choose from the following:		6-8
BSCI 11010 & BSCI 1102C (KBS) (KLAB)	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 or BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
HED 14020	MEDICAL TERMINOLOGY	3
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		6
Credit Hours		63
Semester One		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		5
Credit Hours		11
Semester Three		
Note: Must be admitted to Technical Study to enroll in RIS courses.		
! RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
! RIS 44003	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	2
! RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
! RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
! RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
! RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1

! RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
Credit Hours		14
Semester Four		
! RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
! RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
! RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
! RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	2
! RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		14
Second Summer Term		
! RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
! RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	1
Credit Hours		3
Minimum Total Credit Hours:		120

Magnetic Resonance Imaging Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Note: Students must have graduated from a hospital-based certificate program in radiologic technology; successfully completed the certification exam for the American Registry of Radiologic Technology; and earned the ATS degree in Radiologic Technology (32 credit hours will be awarded). A 2.750 overall GPA is required for this program.		
! Associate of Technical Studies in Radiologic Technology		32
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
CS 10001 or IT 11000 or MIS 24053	COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		18
Credit Hours		66
Semester One		
General Electives		8
Credit Hours		8
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		4
Credit Hours		10
Semester Three		
Note: Admission to Technical Study is required to enroll in RIS courses.		
! RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
! RIS 44003	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	2
! RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
! RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
! RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
! RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
! RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
General Electives		2
Credit Hours		16
Semester Four		
! RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2

! RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
! RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
! RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	2
! RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		14
Second Summer Term		
RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	1
General Electives		3
Credit Hours		6
Minimum Total Credit Hours:		120

Radiation Therapy Concentration for A.S. Degree graduates or Freshman

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester One		
Note: Students who have earned an Associate of Science degree will receive 25 credit hours and will not have to take general electives. A 2.75 overall GPA is required for this program.		
CS 10001 or IT 11000 or MIS 24053	COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS or	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
General Electives		2
Credit Hours		12
Semester Two		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		12
Semester Three		
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		12
Semester Four		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Kent Core Requirement		3
Kent Core Requirement		2
General Electives		6
Credit Hours		14
Semester Five		
Note: Admission to Technical Study is required to enroll in RIS courses.		
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
General Electives		8
Credit Hours		12
Semester Six		
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or PHYSICS FOR HEALTH TECHNOLOGIES	3-5
General Electives		3
Credit Hours		13
Semester Seven		
Required: minimum 2.750 GPA and admittance to the program to enroll in RIS courses		

!	RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
!	RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
!	RIS 34008	RADIATION THERAPY PHYSICS I	3
!	RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
!	RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
	RIS 44000	INTRODUCTION TO RADIATION THERAPY	2
Credit Hours			15
Semester Eight			
!	RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
!	RIS 44018	RADIATION THERAPY PHYSICS II	3
!	RIS 44029	RADIATION THERAPY PATHOLOGY I	3
!	RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours			14
Fourth Summer Term			
!	RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
!	RIS 44042	RADIATION THERAPY PATHOLOGY II	3
	RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
Credit Hours			8
Semester Nine			
!	RIS 44038	RADIATION THERAPY PHYSICS III	3
!	RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
	RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
Credit Hours			8
Minimum Total Credit Hours:			120

Radiation Therapy Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Note: Students must have earned an AAS degree in Radiologic Technology (34 credit hours from Radiologic Technology will be awarded). A 2.750 overall GPA is required for this program.		
Technical requirements in Radiologic Technology		34
Choose from the following:		6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 1102C(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)		
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 21020and ANATOMY AND PHYSIOLOGY II		
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
HED 14020	MEDICAL TERMINOLOGY	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		6
Credit Hours		59
Semester One		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Two		
Note: Admission to Technical Study is required to enroll in RIS courses.		
! RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
! RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
! RIS 34008	RADIATION THERAPY PHYSICS I	3
! RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
! RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours		13
Semester Three		
! RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
! RIS 44018	RADIATION THERAPY PHYSICS II	3
! RIS 44029	RADIATION THERAPY PATHOLOGY I	3
! RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		14
Second Summer Term		
! RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
! RIS 44042	RADIATION THERAPY PATHOLOGY II	3

RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
Credit Hours		8
Semester Five		
! RIS 44038	RADIATION THERAPY PHYSICS III	3
! RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
Credit Hours		8
Minimum Total Credit Hours:		120

Radiation Therapy Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester Prerequisite		
Note: Students must have graduated from a hospital-based certificate program in radiologic technology; successfully completed the certification exam for the American Registry of Radiologic Technology; and earned the ATS degree in Radiologic Technology (32 credit hours will be awarded). A 2.750 overall GPA is required for this program.		
! Associate of Technical Studies in Radiologic Technology		32
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
CS 10001 or IT 11000 or MIS 24053	COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS or	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		15
	Credit Hours	66
Semester One		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	0-3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
Kent Core Requirement		3
Kent Core Requirement		1
General Electives		4
	Credit Hours	11
Semester Two		
Note: Admission to Technical Study is required to enroll in RIS courses.		
! RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
! RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
! RIS 34008	RADIATION THERAPY PHYSICS I	3
! RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
! RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
	Credit Hours	13
Semester Three		
! RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
! RIS 44018	RADIATION THERAPY PHYSICS II	3
! RIS 44029	RADIATION THERAPY PATHOLOGY I	3
! RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
	Credit Hours	14
Second Summer Term		
! RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3

! RIS 44042	RADIATION THERAPY PATHOLOGY II	3
RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
	Credit Hours	8
Semester Five		
! RIS 44038	RADIATION THERAPY PHYSICS III	3
! RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
	Credit Hours	8
	Minimum Total Credit Hours:	120