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

College of Applied and Technical Studies
www.kent.edu/cats

About This Program

Kent State's Radiologic Imaging Sciences bachelor's degree is the perfect choice for students interested in launching a rewarding career in medical imaging. Gain hands-on experience with industry-standard equipment and work alongside experienced faculty to develop the skills and knowledge needed to excel in this growing field. Read more...

Contact Information

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- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
  - Fully online (Computed Tomography completer program and Magnetic Resonance Imaging completer programs - for those with a degree in radiologic technology)
  - In person (Diagnostic Medical Sonography and Radiation Therapy concentrations)
- **Location:**
  - Salem Campus (all concentrations)

Examples of Possible Careers and Salaries*

Diagnostic medical sonographers

- 16.8% much faster than the average
- 74,300 number of jobs
- $75,920 potential earnings

Magnetic resonance imaging technologists

- 7.0% faster than the average
- 38,700 number of jobs
- $74,690 potential earnings

Radiation therapists

- 7.1% faster than the average
- 18,500 number of jobs
- $86,850 potential earnings

Radiologic technologists and technicians

- 6.7% faster than the average
- 212,000 number of jobs
- $61,900 potential earnings

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.

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* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students who have not attended another institution since Kent State and were not academically dismissed will complete the re-enrollment process through the Financial, Billing and Enrollment Center. Former students who attended another college or university since leaving Kent State must apply for admissions as a transfer or post-undergraduate student.

Transfer Students: Students who attended an educational institution after graduating from high school or earning their GED must apply as transfer students. For more information, visit the admissions website for transfer students.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Computed Tomography Concentration Requirements

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 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
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
Clinical Electives, choose from the following:		5
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	
RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	
RIS 44092	COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
Additional Requirements (courses do not count in major GPA)		
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 11009	MODELING ALGEBRA (KMCR)	
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	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]		51
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**7-11**
Concentration for A.A.S. Radiologic Technology graduates [CTRT]		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following: [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
Concentration for for A.T.S. Radiologic Technology graduates (with certification) [CTHA]		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Kent Core Basic Sciences (must include one laboratory)		1
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 **(32-40 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

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 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
RIS 44074	VASCULAR SONOGRAPHY	2
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
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 10001	FLASHES 101	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]		24-35
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**19-21**
Concentration for A.S. Degree graduates or Freshman FRAS		
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	3-5
or PHY 12111	PHYSICS FOR HEALTH TECHNOLOGIES	
RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY (min C grade)	1
Biology (BSCI) Electives, choose from the following:		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) [2]	
or BSCI 21020	ANATOMY AND PHYSIOLOGY II	
Kent Core Basic Sciences (must include one laboratory)		3
Concentration for A.A.S Radiologic Technology graduates RTAS		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following: [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
Concentration for A.T.S. Radiologic Technology graduates (with certification) HATS		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Kent Core Basic Sciences (must include one laboratory)		1
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).

Magnetic Resonance Imaging Concentration Requirements

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 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 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
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
Clincal Electives, choose from the following:		5
RIS 44003	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	
RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	
RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	
RIS 44092	COMPUTED TOMOGRAPHY/MAGNETIC RESONANCE INTERNSHIP (ELR)	
Additional Requirements (courses do not count in major GPA)		
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 11009	MODELING ALGEBRA (KMCR)	
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	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]		51
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**7-11**
Concentration for A.A.S. Radiologic Technology graduates MRRT		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	

Concentration for A.T.S. Radiologic Technology graduates (with certification) [MRHA]		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Kent Core Basic Sciences (must include one laboratory)		1
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

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 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10001	FLASHES 101	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]		24-39
Additional Concentration Requirements (courses do not count in major GPA), choose from the following:		**10-22**
Concentration for A.S. Degree graduates or Freshman [RTFE]		
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	3-5
or PHY 12111	PHYSICS FOR HEALTH TECHNOLOGIES	
RIS 44000	INTRODUCTION TO RADIATION THERAPY	2
Biology (BSCI) Electives, choose from the following:		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II [2]	
Kent Core Basic Sciences (must include one laboratory)		3
Concentration for A.A.S. Radiologic Technology graduates [RTAA]		
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
Biology (BSCI) Electives, choose from the following: [2]		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
Concentration for A.T.S. Radiologic Technology graduates (with certification) [RTHB]		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
or CS 10001	COMPUTER LITERACY	
or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Kent Core Basic Sciences (must include one laboratory)		1
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

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

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

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	Technical requirements in Radiologic Technology		43
	Biology (BSCI) Electives, choose from the following:		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 10041 or MATH 11009 or MATH 11010	INTRODUCTORY STATISTICS (KMCR) or MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**63**
	Semester One		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
		Credit Hours	**12**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		5
		Credit Hours	**14**
	Semester Three		
!	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
!	RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
!	RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
	RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
!	RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
!	RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
!	Clinical Elective		2
		Credit Hours	**14**
	Semester Four		
!	RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
!	RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES 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
!	Clinical Elective		2
		Credit Hours	**14**
	Semester Five		
!	RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
!	Clinical Elective		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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	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
	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	MATH 10041 or MATH 11009 or MATH 11010	INTRODUCTORY STATISTICS (KMCR) or MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirements		3
	Kent Core Requirements		3
	Kent Core Requirements		3
	Kent Core Requirements		3

	Kent Core Requirements		3
	Kent Core Requirements		3
		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		7
		Credit Hours	**11**
	Semester Three		
	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
	RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
	RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
	RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
	RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
	RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
	Clinical Elective		2
		Credit Hours	**14**
	Semester Four		
	RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
	RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES 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
	Clinical Elective		2
		Credit Hours	**14**
	Semester Five		
	RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
	Clinical Elective		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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	General Electives		3
		Credit Hours	**13**
	Semester Two		
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	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 11010 or BSCI 21010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
	General Electives		8
		Credit Hours	**12**
	Semester Six		
	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
	BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	3-4
	General Electives		3
		Credit Hours	**13**
	Third Summer Term		
	RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY	1
		Credit Hours	**1**
	Semester Seven		
!	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 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 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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		**Credits**
	Technical requirements in Radiologic Technology		38
	Biology (BSCI) Electives, choose from the following:		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**58**
	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		
!	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:	**120**

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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		**Credits**
	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
	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or 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 10001	FLASHES 101	1
	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	**66**
	Semester One		
	Kent Core Requirement		3
	Kent Core Requirement		1
	Kent Core Requirement		3
	General Electives		3
		Credit Hours	**10**
	Semester Two		
!	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:	**120**

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

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	Technical requirements in Radiologic Technology		43
	Biology (BSCI) Electives, choose from the following:		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 or BSCI 2102	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 10041 or MATH 11009 or MATH 11010	INTRODUCTORY STATISTICS (KMCR) or MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		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		
!	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY 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
!	Clinical Elective		2
		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 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
!	Clinical Elective		2
		Credit Hours	**14**
	Second Summer Term		
!	RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
!	Clinical Elective		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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	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
	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	MATH 11009 or MATH 10041 or MATH 11010	MODELING ALGEBRA (KMCR) or INTRODUCTORY STATISTICS (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	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	**66**
	Semester One		
	General Electives		9
		Credit Hours	**9**
	Semester Two		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		1
		Credit Hours	**7**

	Semester Three		
!	RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY 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
!	Clinical Elective		2
	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 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
!	Clinical Elective		2
		Credit Hours	**14**
	Second Summer Term		
	RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
!	Clinical Elective		1
	General Electives		5
		Credit Hours	**8**
		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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		**Credits**
	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	General Electives		2
		Credit Hours	**12**
	Semester Two		
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		3
		Credit Hours	**12**
	Semester Three		
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		6
		Credit Hours	**12**
	Semester Four		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		7
		Credit Hours	**16**
	Semester Five		
	BSCI 11010 or BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3-4
	General Electives		6
		Credit Hours	**10**
	Semester Six		
	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
	BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	3-4
	General Electives		3
		Credit Hours	**13**
	Semester Seven		
!	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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
	Technical requirements in Radiologic Technology		42
	Biology (BSCI) Electives, choose from the following		6-8
	BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
	BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
	AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
	MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**62**
	Semester One		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**15**
	Semester Two		
!	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 program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester Prerequisite		Credits
!	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
	CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES or 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 10001	FLASHES 101	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
		Credit Hours	**66**
	Semester One		
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	Kent Core Requirement		3
	Kent Core Requirement		1
	General Electives		4
		Credit Hours	**11**
	Semester Two		
!	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**

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.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ 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 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	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 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.

Full 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

Professional Licensure Disclosure

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.