

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

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

Contact Information

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- Chat with an Advisor
- Speak with an Admissions Counselor

Fully Offered

- Online (Computed Tomography completer program and Radiologic Technology and Magnetic Resonance Imaging completer program)
- Salem Campus (all concentrations)

Examples of Possible Careers*

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

Nuclear medicine technologists

- 5.4% faster than the average
- 18,500 number of jobs
- \$79,590 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

*Note

Source of occupation titles and labor data is 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.

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

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 first-year students.

Freshman Students on the Regional Campuses: Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, 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, minimum 48 PTE score or minimum 100 DET 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.

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.

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 (KCOMP)	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

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	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 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 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
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	48

Additional Concentration Requirements (courses do not count in major GPA), choose from the following: **7-11**

<i>Concentration for A.A.S. Radiologic Technology graduates ^{CTRT}</i>		
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	
HED 14020 or AHS 24010	MEDICAL TERMINOLOGY MEDICAL TERMINOLOGY	1-3

Concentration for A.T.S. Radiologic Technology graduates (with certification) ^{CTHA}

BSCI 10001	HUMAN BIOLOGY (KBS)	3
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Kent Core Basic Sciences (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 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		
Kent Core Humanities and Fine Arts (minimum one course from each)		
Kent Core Social Sciences (must be from two disciplines)		
Kent Core Additional		
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
<i>Concentration for A.S. Degree graduates or Freshman^{FRAS}</i>		
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 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) ² and ANATOMY AND PHYSIOLOGY II	
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS, COMPUTER LITERACY, or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
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
RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY (min C grade)	1
Kent Core Basic Sciences		
<i>Concentration for A.A.S. Radiologic Technology graduates^{RTAS}</i>		
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	
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS), or MOLECULES OF LIFE (KBS)	3
HED 14020 or AHS 24010	MEDICAL TERMINOLOGY, or MEDICAL TERMINOLOGY	1-3
<i>Concentration for A.T.S. Radiologic Technology graduates (with certification)^{HATS}</i>		
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	INTRODUCTION TO COMPUTER APPLICATIONS, or COMPUTER LITERACY	3

or IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Kent Core Basic Sciences (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 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 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS), or MOLECULES OF LIFE (KBS)	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 Composition		
Kent Core Humanities and Fine Arts (minimum one course from each)		
Kent Core Social Sciences (must be from two disciplines)		
Kent Core Additional		
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ¹		48

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}
 Biology (BSCI) Electives, choose from the following² 6-8

BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
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BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
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HED 14020 or AHS 24010	MEDICAL TERMINOLOGY	1-3
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Concentration for A.T.S. Radiologic Technology graduates (with certification)^{MRHA}

BSCI 10001	HUMAN BIOLOGY (KBS)	3
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CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
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Kent Core Basic Sciences (laboratory)		1
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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
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Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)

RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
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RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
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RIS 34008	RADIATION THERAPY PHYSICS I	3
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RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
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RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
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RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
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RIS 44018	RADIATION THERAPY PHYSICS II	3
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RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
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RIS 44029	RADIATION THERAPY PATHOLOGY I	3
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RIS 44038	RADIATION THERAPY PHYSICS III	3
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RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
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RIS 44042	RADIATION THERAPY PATHOLOGY II	3
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RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
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RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
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RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
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RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
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Additional Requirements (courses do not count in major GPA)

COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
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MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) ALGEBRA FOR CALCULUS (KMCR)	3-4
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PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
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UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
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	Kent Core Composition	6
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	Kent Core Humanities and Fine Arts (minimum one course from each)	9
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	Kent Core Social Sciences (must be from two disciplines)	3
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	General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ¹	24-39
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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}
 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)	
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BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II ²	
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CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
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HED 14020	MEDICAL TERMINOLOGY	3
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PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) PHYSICS FOR HEALTH TECHNOLOGIES	3-5
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RIS 44000	INTRODUCTION TO RADIATION THERAPY	2
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	Kent Core Basic Sciences	3
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Concentration for A.A.S. Radiologic Technology graduates^{RTAA}
 Biology (BSCI) Electives, choose from the following² 6-8

BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
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BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
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CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
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HED 14020 or AHS 24010	MEDICAL TERMINOLOGY	1-3
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	<i>Concentration for A.T.S. Radiologic Technology graduates (with certification)^{RTHB}</i>	
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BSCI 10001	HUMAN BIOLOGY (KBS)	3
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CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
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CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
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	Kent Core Basic Sciences (laboratory)	1
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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)

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.

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.

Semester Prerequisite	Credits
! Technical requirements in Radiologic Technology	40
Biology (BSCI) Electives, choose from the following:	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 2102C and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 MOLECULES OF LIFE (KBS)	3
HED 14020 MEDICAL TERMINOLOGY or AHS 24010 MEDICAL TERMINOLOGY	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or MATH 11010 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	3
Kent Core Requirement	3
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		5
Credit Hours		14
Semester Three		
! 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	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 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.

Semester Prerequisite		Credits
!	Associate of Technical Studies in Radiologic Technology	32
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS)	3
CHEM 10055		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or IT 11000	3
	or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
MATH 11009	MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR)	3-4
MATH 11010		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	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 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	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 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.

Semester One		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or IT 11000	3
	or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
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) or or ALGEBRA FOR CALCULUS (KMCR)	3-4
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 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I or (KBS) (KLAB) BSCI 21010 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 major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite	Credits
Technical requirements in Radiologic Technology	35
Biology (BSCI) Electives, choose from the following:	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 2102C and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS) CHEM 10055	3
HED 14020 MEDICAL TERMINOLOGY or or MEDICAL TERMINOLOGY AHS 24010	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR) MATH 11010	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	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 major. However, 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 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS)	3
	CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or COMPUTER LITERACY or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	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	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 major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite	Credits
Technical requirements in Radiologic Technology	40
Biology (BSCI) Electives, choose from the following:	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or or ANATOMY AND PHYSIOLOGY II BSCI 2102	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS) CHEM 10055	3
HED 14020 MEDICAL TERMINOLOGY or or MEDICAL TERMINOLOGY AHS 24010	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR) MATH 11010	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	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 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.

Semester Prerequisite	Credits
! Associate of Technical Studies in Radiologic Technology	32
BSCI 10001 HUMAN BIOLOGY (KBS)	3
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS)	3
CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or COMPUTER LITERACY or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	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	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 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	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 major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
or CS 10001	or COMPUTER LITERACY	
or IT 11000	or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
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		Credits
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or	or ALGEBRA FOR CALCULUS (KMCR)	
MATH 11010		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		12
Semester Three		Credits
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
Credit Hours		12
Semester Four		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		7
Credit Hours		16
Semester Five		Credits
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
or	or FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 11020		
General Electives		6
Credit Hours		10
Semester Six		Credits
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	3-5
& PHY 13021	and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or	or PHYSICS FOR HEALTH TECHNOLOGIES	
PHY 12111		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3-4
or	or ANATOMY AND PHYSIOLOGY II	
BSCI 21020		
General Electives		3
Credit Hours		13
Semester Seven		Credits
! 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		Credits
! 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		Credits
! 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		Credits
! 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.

Semester Prerequisite	Credits
Technical requirements in Radiologic Technology	39
Biology (BSCI) Electives, choose from the following	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 2102C and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS) CHEM 10055	3
HED 14020 MEDICAL TERMINOLOGY or or MEDICAL TERMINOLOGY AHS 24010	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR) MATH 11010	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	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 major. However, 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 FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS) CHEM 10055	3
COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or COMPUTER LITERACY or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MATH 11009 MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR) MATH 11010	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	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