Application Packet
Bachelor of Radiologic and Imaging Sciences Technology Degree
For Fall Semester 2018

Application Deadline: June 15, 2018

Computed Tomography (CT)
Or
Magnetic Resonance Imaging (MRI)

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Visit the Kent Salem Web Page at https://www.kent.edu/columbiana
Kent State University Salem Campus  
Radiologic and Imaging Sciences Technology

Kent State University Salem Campus offers a Bachelor of Radiologic and Imaging Sciences Technology (BRIT) degree within the RIS major with concentrations in:

I. Computed Tomography (CT)  
II. Magnetic Resonance Imaging (MRI)

Students who wish to pursue the BRIT degree in CT or MRI must graduate from an accredited radiologic technology, nuclear medicine or radiation therapy program and be registered by the ARRT or NMTCB prior to acceptance into the program.

Students may take the CT or MRI courses, complete clinical competencies, sit for the ARRT certification exam and finish bachelor degree requirements at a later date if desired.

ADMISSION INTO CT or MRI

- The CT and MRI programs begin in the fall semester each year.
- Students may complete the CT or MRI courses prior to or after all general courses are complete.
- The general courses include those included in the Kent Core, domestic and diversity courses, and upper division electives.
- Since admission into the program is selective, only those students who meet program requirements will be considered and only a limited number of students are accepted, based on the number of clinical sites affiliated with the program. Students must seek advisement from Jan Gibson, Senior Program Director at KSU Salem.

Application Process for the CT or MRI Programs

Applicants must complete all of the following steps:

1. Apply to Kent State University and submit the application fee. You may apply to any of the eight campuses of Kent State University. If you are currently attending or have previously attended Kent and have not attended any other university since attending KSU you do not need to complete this step. The RIS courses are only offered at the Salem Campus but students may take all other general courses at any of the eight KSU campuses.

2. Arrange to have official transcripts from your high school and all universities or colleges attended sent directly from those schools. Students who previously attended or are currently attending KSU are not required to submit KSU transcripts. Transfer students will have their transcripts evaluated by Kent State University and may need to provide course descriptions and/or syllabi to determine equivalency of courses.

3. Assessment of Reading, Writing and Math: If a student has not previously completed ENG 11011 (College Writing I) and MATH 11009 (Modeling Algebra) or 11010 (Algebra for Calculus) or the equivalent, either ACT scores will be evaluated for placement or the student will need to schedule the Accuplacer & ALEKS testing at any of the eight campuses of Kent State University. At Kent State Salem, please phone 330-337-4190. Applicants who have completed these courses or their equivalent from a college or university are exempt from testing.
4. Read all of the information in this application packet and check to make sure you meet the admission requirements of the RIS concentration in CT or MRI.

5. If admission requirements have been met, submit the CT/MRI application form (pages 12-13) The deadline for submitting applications for CT and MRI is June 15th

6. The selection of students will be based on cumulative GPA, math, science and medical imaging grades. The completion of the stated minimum requirements does not guarantee admission into the program. Transfer students should check the KSU website for evaluation of transfer courses.

7. Admission Requirements for those pursuing the Bachelor degree in RIS for CT or MRI:
   A. Grade Point Average: Applicants must have at least a 2.75 cumulative GPA
   B. Successful completion of Modeling Algebra or Algebra for Calculus
   C. Successful completion of Anatomy & Physiology I and II with a C or better
   D. Successful completion of a college Chemistry course with a “C” or better

8. The program director will review applications and select students who meet the qualifications. The number of students chosen is based on the number of clinical sites affiliated with Kent State University. The program director and clinical coordinator will determine clinical education site placement for students.

Program Acceptance Requirements for Accepted Students
Upon acceptance into the CT or MRI program, students must submit the following by the first week of classes:

1. Orientation Meeting in July: Accepted students must attend an orientation meeting in mid-July to schedule fall semester courses and to discuss program admission requirements, clinical dress codes and program policies. Please do not proceed with the following requirements until instructed to do so at the orientation meeting.

2. CPR Certification: students accepted into the program must be certified by the program start and maintained throughout the program. Certification is offered by the American Heart Association. Level of certification required: BLS Provider. The program schedules a CPR recertification class in August for accepted students. Cost is approximately $40.00.

3. Electronic federal and state criminal background checks must be completed by the Fast Fingerprinting Company and will be done at the Salem Campus at the beginning of the orientation meeting. The cost is approximately $88.00. If you do not attend the orientation meeting, you will have to go their Canton office to complete the testing. No other background checks will be accepted. Must be completed, uploaded, & reviewed prior to clinical start time.

   Applicants must fully disclose any misdemeanor or felony records and seek advisement from the Senior Program Director prior to applying. Those with records will be advised to contact the American Registry of Radiologic Technologists Ethics Committee at www.asrt.org prior to the program start.

4. Drug testing will be completed by Quest Labs. Approximate cost is $37.00. Information on scheduling appointments will be given during the May orientation meeting. Students must receive a negative drug screen for final acceptance to the program. Contact the program director for questions. Must be completed, uploaded, & reviewed prior to clinical start time.
5. **A physical exam and evidence of standard immunizations.** Students must have a physical exam, records of immunizations or titers completed and have a TB (PPD) screening test within 12 months of program start. Must be completed, uploaded, & reviewed prior to clinical start.

6. Accepted students will upload all records and reports to **CastleBranch** for verification and completion. All results must be submitted by program start. This company will maintain the records for a service cost of approximately $35.00. More information will be provided at the orientation meeting.

7. **Scrubs:** students must purchase 2 sets of KSU navy blue scrubs and a lab jacket for the program. The cost is approximately $150. Students will be provided the opportunity to try on scrub uniforms during the orientation meeting in July. Ordering instructions are given at that time.

8. Pursuant to Federal Regulations and State Law, Kent State University is committed to providing all persons **equal access** to its programs, facilities, employment, and investigation of alleged complaints of discrimination without regard to race, color, religion, age, gender, sexual orientation, national origin, disability, or identification as a disabled veteran or veteran of the Vietnam era.

9. **Applicants are notified** of acceptance or non-acceptance. Those students who are selected for the program must begin the coursework as designated in the application packet due to the sequence of courses for the degree. Students must meet health and admission requirements of Kent State University and clinical sites.

10. **ARRT Certification** after graduation: After successful completion of both academic and clinical requirements, graduates of the CT or MRI programs are encouraged to take the ARRT certification exam to become registered.

11. **Licensure Requirements:** Graduates of the CT program who wish to be employed in the state of Ohio must have a radiographer state license from the Ohio Department of Health.

**The Mission of the Program**

The mission of the program is to educate CT and MRI students in the knowledge, skills and attitude to become qualified practitioners who provide quality service and care to the community and to prepare students for the changing needs of the profession. Kent State University transforms lives and communities through the power of discovery, learning and creative expression in an inclusive environment.

**Goals of the CT and MRI Program**

1. Students will successfully complete all academic requirements for the application of knowledge to the practice of computed tomography or magnetic resonance imaging.
2. Students will effectively utilize critical thinking, problem-solving and decision-making skills in the practice of computed tomography or magnetic resonance imaging.
3. Students will effectively communicate in oral and written form with patients, customers, and all members of the health care team.
4. Students will successfully perform computed tomography or magnetic resonance imaging procedures and attain results of high diagnostic value, while providing quality patient care.
5. Students will exhibit personal and professional attributes and values relevant to the practice of computed tomography or magnetic resonance imaging.
Bachelor Degree in Radiologic and Imaging Sciences Technology: CT Program

CT Requirements for the degree include successful completion of the following:

1. Completion of an associate or bachelor degree program in one of the following:
   - Radiologic Technology and registered by the ARRT (ARRT waived for international students)
   - Radiation Therapy and registered by the ARRT
   - Nuclear Medicine and registered by the ARRT or NMTCB

2. Completion of Kent Core Requirements. See enclosed list for specifics
   - 6 semester hours: English Composition: ENG 11010, 21011 College Writing I and II
   - 3-4 semester hours: MATH 11009 Modeling Algebra, or MATH 01772 Modeling Algebra Plus or MATH 11010 Algebra for Calculus or MATH 10775 Algebra for Calculus Plus.
   - 9 semester hours: Humanities & Fine Arts (see Kent Core list)
   - 6 semester hours: Social Sciences including PSYCH 11762, General Psychology
   - 6 semester hours: Sciences: Anatomy and Physiology I and II (must include labs)
   - 6 semester hours: Additional Kent Core to include CHEM 10050, Fundamentals of Chemistry or CHEM 10055, Molecules of Life plus one other Kent Core course in any category.

3. Completion of two diversity courses: one global and one domestic. Diversity courses may be Kent Core courses as designated on the list (G = global and D = domestic courses) See Kent Core list.

4. 9 credit hours of upper division electives at the 30,000-40,000 level. Be sure to meet prerequisites.

5. Students must have at least a 2.75 cumulative grade point average prior to acceptance.

6. Submit a completed CT/MRI Application Form (p. 12-13) by June 15th

7. Clinical education courses permit the completion of the required ARRT competencies.

8. Clinical sites are arranged by the CT Clinical Coordinator.

9. Clinical Education I begins the second week of fall semester.

Fall Semester (13 credit hours) (August-December)
RIS 44030 Physical Principles of CT I 2 hours Tuesday evenings
RIS 44047 CT Procedures I 1 hour Tuesday evenings
RIS 34084 Sectional Anatomy I CT/MRI 2 hours Thursday evenings
RIS 44021 Patient Management in CT 2 hours Thursday evenings
RIS 44096 Ind. Investigation Med Imaging 3 hours Online
RIS 44088 Leadership in Medical Imaging 1 hour Online
RIS 44004 CT Clinical Education I 2 hours Two days per week for 15 weeks

Spring Semester (14 credit hours) (January-May)
RIS 44098 Research in Medical Imaging 3 hours Tuesday afternoons
RIS 44062 Physical Principles of CT II 2 hours Tuesday evenings
RIS 44048 CT Procedures II 2 hours Tuesday evenings
RIS 34086 Sectional Anatomy II CT/MRI 2 hours Online
RIS 44083 Pathophysiology Med. Imaging 3 hours Online
RIS 44054 CT Clinical Education II 2 hours Two days per week for 15 weeks

Summer Semester (3 credit hours) (Mid-May to Mid-July)
RIS 44068 CT Techniques 2 hours Part online and part on campus
RIS 44069 CT Clinical Education III 1 hour Two days per week for 8 weeks
Bachelor Degree in Radiologic and Imaging Sciences Technology: MRI Program

MRI requirements for the degree include successful completion of the following:
1. Completion of an associate or bachelor degree program in one of the following:
   - Radiologic Technology and registered by the ARRT (ARRT waived for international students)
   - Radiation Therapy and registered by the ARRT
   - Nuclear Medicine and registered by the ARRT or NMTCB
2. Completion of Kent Core Requirements. See enclosed list for specifics
   - 6 semester hours: English Composition: ENG 11010, 21011 College Writing I and II
   - 3-4 semester hours: MATH 11009 Modeling Algebra, or MATH 01772 Modeling Algebra Plus or MATH 11010 Algebra for Calculus or MATH 10775 Algebra for Calculus Plus.
   - 9 semester hours: Humanities & Fine Arts
   - 6 semester hours: Social Sciences including PSYCH 11762, General Psychology
   - 6 semester hours: Sciences: Anatomy and Physiology I and II (must include labs)
   - 6 semester hours: Additional Kent Core to include CHEM 10050, Fundamentals of Chemistry or CHEM 10055, Molecules of Life plus one other Kent Core course in any category.
3. Completion of two diversity courses: one global and one domestic. Diversity courses may be Kent Core courses as designated on the list (G = global and D = domestic courses) See Kent Core list.
4. 8 credit hours of upper division electives at the 30,000-40,000 level. Be sure to meet prerequisites.
5. Students must have at least a 2.75 cumulative grade point average prior to acceptance.
6. Submit a completed CT/MRI Application Form (p. 12-13) by June 15th
7. Clinical education courses permit the completion of the required ARRT competencies.
8. Clinical sites are arranged by the CT Clinical Coordinator.
9. Clinical Education I begins the third week of fall semester.

Fall Semester (13 credit hours) August-December
RIS 44051 MRI Equipment & Image Acquisition I 2 hours Tuesday evenings
RIS 44044 MRI Procedures I 2 hours Tuesday evenings
RIS 44031 Patient Management in MRI 2 hours Thursday evenings
RIS 34084 Sectional Anatomy I for CT/MRI 2 hours Thursday evenings
RIS 44088 Leadership in Medical Imaging 1 hour Online
RIS 44096 Individual Invest. Medical Imaging 3 hours Online
RIS 44003 MRI Clinical Education I 2 hours 2 days per week for 15 weeks

Spring Semester (14 credit hours) January-May
RIS 44098 Research in Medical Imaging 3 hours Tuesday afternoons
RIS 44045 MRI Procedures II 2 hours Tuesday evenings
RIS 44052 MRI Equipment & Image Acquisition II 2 hours Tuesday evenings
RIS 34086 Sectional Anatomy II for CT/MRI 2 hours Online
RIS 44083 Pathophysiology for Med. Imaging 3 hours Online
RIS 44063 MRI Clinical Education II 2 hours 2 days per week for 15 weeks

Summer Semester (3 credit hours) Mid-May to Mid-July
RIS 44046 MRI Techniques 2 hours Part online and part on campus
RIS 44073 MRI Clinical Education III 1 hour Two days per week for 8 weeks
Kent State University 2017-2018

Kent Core Requirements for the BRIT degree

Visit the University Catalog (Undergraduate University Requirements) for information on transfer, proficiency and other options to meet the Kent Core.

Legend: G = Global Diversity, D = Domestic Diversity

COMPOSITION ..................................................... 6 HOURS

ENG 11011 College Writing I ........................................ 3 OR
or ENG 11022 College Writing I-Stretch .......................... 3
ENG 21011 College Writing II ...................................... 3
HONR 10197[297] Freshman Honors Colloquium I, II (each) 4

MATHEMATICS .................................................... (3-4 hours)

Choose from one of the following (contact advisor)

MATH 11099 Modeling Algebra. .................................. 4
or MATH 10772 Modeling Algebra Plus .......................... 5
MATH 11010 Algebra for Calculus ................................ 3
or MATH 10774 Algebra for Calculus II .......................... 3
or MATH 10775 Algebra for Calculus Plus ....................... 4

HUMANITIES AND FINE ARTS .................................. (9 hours)

Minimum one course from “Humanities” and one course from “Fine Arts” category required.

HUMANITIES IN ARTS AND SCIENCES

CLAS G 21404 The Greek Achievement .......................... 3
CLAS G 21405 The Roman Achievement .......................... 3
ENG 21054 Introduction to Shakespeare .......................... 3
ENG 22071 Great Books to 1700 ............................... 3
ENG 22072 Great Books since 1700 ......................... 3
ENG 22073 Major Modern Writers: British and US .... 3
HIST G 11050 World History: Ancient and Medieval ....... 3
HIST G 11051 World History: Modern ......................... 3
HIST D 12070 Early America ...................................... 3
HIST D 12071 Modern America .................................. 3
PAS G 23001, Black Experience I: Beginnings to 1865 ... 3
PAS D 23002 Black Experience II: 1865 to Present ... 3
PHIL G 11001 Introduction to Philosophy ....................... 3
PHIL G 21001 Introduction to Ethics ............................ 3
REL G 11020 Introduction to World Religions ................ 3
REL G 21021 Moses, Jesus and Mohammed ................ 3

HUMANITIES IN COMMUNICATION AND INFORMATION

COMM 26000 Criticism of Public Discourse .................. 3

FINE ARTS IN FINE AND PROFESSIONAL ARTS

ARCH 10001 Understanding Architecture ....................... 3
ARTH 12001 Art as a World Phenomenon ....................... 3
ARTH 22006 Art History I: Ancient and Medieval Art ........ 3
ARTH 22007 Art History II: Renaissance to Modern Art .... 3
ARTH G 22020 Art of Africa, Oceania, and the Americas .. 3
DAN G 27076 Dance as an Art Form ............................ 3
MUS G 22111 The Understanding of Music .................... 3
THEA G 11000 The Art of the Theatre ....................... 3

NOTE: Students must take one global and one domestic diversity course to fulfill the diversity requirement.

PSCY 11762 fulfills the Domestic diversity course requirement

ADDITIONAL COURSES ............................................ 6 HOURS

CHEM 10050 Fundamentals of Chemistry ....................... 3
Or CHEM 1055 Molecules of Life ................................ 3

Select one additional course from categories II-VI above or select one of the following: COMM 15000, HONR 13597, or PHIL 11009.

SOCIAL SCIENCES .................................................. (6 hours)

PSYC D 11762 General Psychology ................................. 3

Select 3 hour course from the Kent Core Requirements that is in a different discipline area other than Psychology

ANTH G 18210 Introduction to Cultural Anthropology ........ 3
ANTH G 18420 Introduction to Archaeology .................... 3
CACC D 11001 Introduction to Conflict Management .... 3
CRIM 26704 Issues in Law and Society ......................... 3
ECON 22060 Principles of Microeconomics .................... 3
ECON 22061 Principles of Macroeconomics .................... 3
GEOG 10160 Introduction to Geography ....................... 3
GEOG G 17063 World Geography .................................. 3
GEOG D 17064 Geography of the US and Canada .......... 3
GEOG G 22061 Human Geography ............................. 3
GERO D 14029 Introduction to Gerontology .................... 3
JMC D 20001 Media, Power and Culture ....................... 3
POL G 10004 Comparative Politics ........................... 3
POL D 10100 American Politics ................................ 3
POL G 10500 World Politics .................................... 3
SOC D 12050 Introduction to Sociology ....................... 3
SOC G 22778 Social Problems .................................. 3

BASIC SCIENCES .................................................. (6 hours)

BSCI 11010 and 11020, Foundational Anatomy & Physiology I, II...... 6
(fulfills Basic Sciences Kent Core and lab requirement)

OTHER KENT CORE SCIENCE COURSES

ANTH 18630 Human Evolution ...................................... 3
ANTH 18631 Issues in Human Evolution (lab) ............... 1
ATTR 25057 Human Anatomy and Physiology I ............... 3
or EXSC 25057 Human Anatomy and Physiology I .......... 3
ATTR 25058 Human Anatomy and Physiology II ............ 3
or EXSC 25058 Human Anatomy and Physiology II ....... 3
BSCI 10001 Human Biology ........................................ 3
BSCI 10002 Life on Planet Earth .................................. 3
BSCI 10003 Lab Experience in Biology ......................... 1
BSCI 10110[20] Biological Diversity, Foundations, ........... (each) 4
BSCI 11010 Foundational Anatomy and Physiology I ....... 3
BSCI 11020 Foundational Anatomy and Physiology II ..... 3
BSCI 21010 Anatomy and Physiology I ......................... 4
CHEM 10030 Chemistry in Our World ......................... 3
CHEM 10031 Chemistry in Our World Lab ..................... 1
CHEM 10050 Fundamentals of Chemistry ..................... 3
CHEM 10052 Introduction to Organic Chemistry .......... 2
CHEM 10053 Inorganic and Organic Lab (Co-requisite 10052) .... 1
CHEM 10055 Molecules of Life .................................. 3
CHEM 10060[61] Gen Chemistry I, II, III, IV, V, VI, VII .......... (each) 4
GEOG 21062 Physical Geography ................................ 3
GEOG 21063 Physical Geography Lab .......................... 1
GEOG 11040 How the Earth Works ............................... 3
GEOG 11041 How the Earth Works Lab ......................... 1
GEOG 11042 Earth & Life Through Time ....................... 3
GEOG 11043 Earth & Life Through Time Lab ................ 1
GEOG 21062 Environmental Earth Science .................... 3
GEOL 21080 All about the Oceans ................................ 3
NUTR 23511 Science of Human Nutrition ..................... 3
PHY 11030 Seven Ideas that Shook the Universe ............... 3
PHY 12201[2] Technical Physics I, II ............................ (each) 3
PHY 21040 Physics in Entertainment and the Arts .......... 3
PHY 21041 Physics in Entertainment and the Arts Lab .... 1
PHY 21430 Frontiers in Astronomy ................................ 3
PHY 21431 Frontiers in Astronomy Lab .......................... 1
PHY 23101 General University Physics I, II, III ............. (each) 5
Course Descriptions: CT

RIS 34084, 34086 Sectional Anatomy I and II  2 semester hours each
Sectional anatomy of the head, neck, thorax, abdomen, pelvis, and extremities is reviewed.
Sectional Anatomy I is on campus and Sectional Anatomy II is online.

RIS 44021  Patient Management in CT  2 semester hours
The principles and techniques needed to perform general patient care procedures in CT that include patient history, assessment and monitoring, universal standards, sterile technique, IV procedures and contrast administration procedures.

RIS 44022, 44048 CT Procedures I and II  1+2 semester hours
The courses provide information on patient positioning, protocol selections, parameter selection, image display, filming and archiving, and evaluation of images. Procedural areas include head, neck, chest, abdomen, pelvis, musculoskeletal, interventional and special procedures.

RIS 44030, 44049 Physical Principles of CT I and II  2 semester hours each
The courses provide information on computer fundamentals, operations and applications, principles of CT system operation and components, image processing and display, image quality and artifacts.

RIS 44004, 44054, 44069 CT Clinical Education I, II, III  I-2 hr, II-2 hr, III-1 hr
Provides clinical education and experience at a clinical education setting in order to allow the student the opportunity to practice skills necessary to obtain high quality CT images, to objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and make appropriate corrections.

RIS 44083  Pathophysiology for Medical Imaging  3 semester hours
Provides students with basic information on the causes of diseases and the body’s response to disease, as well as the medical imaging modalities that will demonstrate them. Prerequisite: radiologic and imaging sciences (RIS) major. Online course.

RIS 44096  Individual Investigation in Medical Imaging  3 semester hours
Student selects prescribed number of medical imaging journal articles, completes questions, paper and presentation. Prerequisite: radiologic and imaging sciences (RIS) major. Online course

RIS 44098  Research in Medical Imaging  3 semester hours
Fundamental concepts and procedures for systematic collection, analysis, critique and application of qualitative and quantitative data in medical imaging. Prerequisites: radiologic and imaging sciences (RIS) major and senior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department. Students must receive a C or better in this course.

RIS 44088  Leadership in Medical Imaging  1 semester hour
Online course to learn fundamentals of radiology management and leadership skills. Online course.

RIS 44033  CT Techniques  2 semester hours
Prepares students for ARRT certification exam. Part online and part on campus.
Course Descriptions: MRI

RIS 34084, 34086 Sectional Anatomy I and II  2 semester hours each
Sectional anatomy of the head, neck, thorax, abdomen, pelvis, and extremities is reviewed.

RIS 44031  Patient Management in MRI  2 semester hours
The principles and techniques needed to perform general patient care procedures in MRI that include patient screening, assessment and monitoring, safety precautions and biological considerations, IV procedures, and contrast administration procedures.

RIS 44044, 44045 MRI Procedures I and II  2 semester hours each
This course will provide the student with imaging techniques related to the central nervous system, neck thorax, musculoskeletal system and abdominopelvic regions. Specific clinical applications, coils that are available and their use, considerations in the scan sequences, specific choices in the protocols, and positioning criteria will be covered. Anatomical structures and the plane that best demonstrates anatomy will be discussed as well as signal characteristics of normal and abnormal structures.

RIS 44051, 44052 MR Equipment & Image Acquisition I and II  2 semester hours each
Provides the student with a comprehensive overview of MR imaging to include instrumentation, magnetism, NMR Signal Production, Tissue Characteristics, Spatial Localization, Pulse Sequencing, Imaging Parameters/Options, Special Applications, Safety, and Quality Assurance

RIS 44003, 44063, 44073  MRI Clinical Education I-III  I-2 hr, II-2 hr, III-1 hr
Provides clinical education and experience at a clinical education setting in order to allow the student the opportunity to practice skills necessary to obtain high quality MR images, to objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and make appropriate corrections.

RIS 44083  Pathophysiology for Medical Imaging  3 semester hours
Provides students with basic information on the causes of diseases and the body’s response to disease, as well as the medical imaging modalities that will demonstrate them. Prerequisite: radiologic and imaging sciences (RIS) major. Online

RIS 44098  Research in Medical Imaging  3 semester hours
Fundamental concepts and procedures for systematic collection, analysis, critique and application of qualitative and quantitative data in medical imaging. Prerequisites: radiologic and imaging sciences (RIS) major and senior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

RIS 44096  Individual Investigation in Medical Imaging  3 semester hours
Student selects prescribed number of medical imaging journal articles, completes questions, paper and presentation. Prerequisite: radiologic and imaging sciences (RIS) major. Online

RIS 44088  Leadership in Medical Imaging  1 semester hour
Online course to learn fundamentals of radiology management and leadership skills.

RIS 44046  MRI Techniques  2 semester hours
Prepares students for ARRT certification exam. Part online and part on campus
KENT STATE UNIVERSITY

PREGNANCY POLICY
For Applicants and Students Enrolled in the CT or MRI Program

CT Students:
If an applicant or an enrolled student does suspect she is pregnant, she has the option of whether or not to inform program officials of her pregnancy. If the woman chooses to voluntarily inform officials of her pregnancy, it must be in writing and indicate the expected date of delivery. In the absence of this voluntary, written disclosure, a student cannot be considered pregnant.

If an applicant or an enrolled student chooses to disclose her pregnancy, she must immediately notify the Educational Coordinator and/or the Program Director. The applicant or an enrolled student must then sign a witnessed "Attest" form that the appendix to Regulatory Guide 8.13 of the United States Regulatory Commission was read and discussed.

If an applicant or an enrolled student chooses to disclose her pregnancy, she is allowed to make an informed decision based on her individual needs and preferences. The options include the following:

1. Continuing the educational program without modification of the rotation schedule.
2. Leave of Absence from the program.

The student who chooses to disclose her pregnancy and continue at the clinical site will be required to purchase and wear an additional dosimeter for fetal dose measurement if the clinical site does not provide a dosimeter for her. The clinical site may require the use of lead aprons to be worn during clinical rotation.

The student may or may not be allowed to graduate at the scheduled date. This will be determined on an individual basis by the faculty depending on the student's capacity to complete course requirements.

The student will also be required to follow the National Council on Radiation Protection and measurement (NCRP) dose limits for the embryo and fetus in occupational exposed women, which is no more than 0.5 rem during the entire gestation and no more than 0.05 rem in any month, both with respect to the fetus.

It is the policy of the program to instruct all students on radiation protection procedures with respect to the embryo/fetus.

Neither Kent State University nor the student's assigned Clinical Education Site will be responsible for radiation injury to the student or the embryo/fetus if the student chooses to continue in the program during pregnancy.

MRI Students:
Possible clinical re-assignment if working at 2.0 Tesla or above if Kent State has other clinical sites available

The student may or may not be allowed to graduate at the scheduled date. This will be determined on an individual basis by the faculty depending on the student's capacity to complete course requirements.

The student will also be required to follow the recommendations of the ISMRM safety committee. The pregnant student may not enter the scan room while the RF and gradient fields are being employed (during scanning). Since the possible effects of static magnetic fields at 2.0 Tesla and above have not been determined in regards to an embryo/fetus, students will not permitted to enter the scan room at any time. It is the policy of the program to instruct all students that the effects of MRI are undetermined with respect to the embryo/fetus.
TECHNICAL STANDARDS

The CT and MRI programs at Kent State University have established essential functional requirements necessary for enrolled students to acquire the knowledge, skills, competencies and values of an entry level professional. The technical standards are not intended as a complete listing of behaviors required but are a sampling of the types of abilities needed to meet program objectives and requirements. The CT and MRI program or their affiliated clinical education settings may identify additional critical behaviors or abilities to meet program or clinical site requirements and reserves the right to amend this listing based on the identification of additional standards for students.

The following essential functions must be met by all students after acceptance into the major in order to complete the program. In the event that a student is unable, or becomes unable to fulfill these technical standards with or without reasonable accommodations, the student can not enroll or remain enrolled in the program. Following acceptance into the program, students are required to verify that they understand and meet these standards or that they believe that, with certain accommodations, they can meet the standards. For students who believe they can meet these standards with accommodation, the KSU Salem Student Disabilities Coordinator will validate their need for accommodation and will work with the program to determine if reasonable accommodation can be made. This accommodation will take into account whether accommodation would jeopardize technologist/patient safety or undercut an essential element of a course or clinical experience.

CT or MRI students must demonstrate:
1. Sufficient communication skills to communicate effectively and sensitively with patients, healthcare professionals and the public, including individuals from different cultural and social backgrounds and in stressful and emergency situations. Students must be able to understand and speak the English language at a level consistent with competent professional practice. Must be able to document patient information legibly & accurately
2. Sufficient sight to read requisitions & charts, observe conditions of the patient in low levels of light; to evaluate medical images on view boxes and on computer screens and to record information clearly and accurately.
3. Sufficient hearing to interact with and respond to patients as well as to the audible sounds of equipment.
4. The ability to stand and walk while assigned to a clinical education setting so as to perform medical imaging procedures in an appropriate and effective manner.
5. The ability to lift, assist and maneuver patients in wheelchairs, carts and imaging tables without injury to patient, self or other healthcare workers and to respond to medical emergencies in an effective manner. Have sufficient motor skills to manipulate and reach equipment and to operate small controls. Must be able to lift a minimum of 20 pounds to shoulder height. Perform CPR, first aid & general patient care.
6. The ability to assimilate, analyze, synthesize, integrate concepts and solve problems found in medical imaging and to be able to distinguish deviations from the norm.
7. The intellectual and emotional skills to exercise discretion in handling confidential medical information.
8. The cognitive ability to perceive and deal appropriately with environmental threats and stresses and continue to function safely and effectively during high stress periods.
9. The ability to protect oneself and others from hazards in the health care environment, such as infectious disease, contaminated equipment, sharp instruments, chemical fumes, magnetic fields and radiation.
Bachelor of Radiologic and Imaging Sciences Technology Degree
Application for the CT or MRI Program for 2018
Application deadline is June 15, 2018

Name ____________________________________________________________________________________
Last                                First                        Middle Initial   Maiden Name (if applicable)

Address ___________________________________________________________________________________
Street       City                   State                     Zip Code

Cell Phone: (________) ______________________    Alternate Phone (_______) ______________________

KSU e-mail _______________________________ KSU Banner Number_______________________
(If unknown, radiology secretary will complete)
Alternate e-mail ____________________________

<table>
<thead>
<tr>
<th>Name of High School</th>
<th>Location: city/state</th>
<th>Dates of Attendance</th>
<th>Graduation/GED Date</th>
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</thead>
<tbody>
<tr>
<td>List all Colleges or Universities attended including Kent State University</td>
<td>Location: city/state</td>
<td>Dates of Attendance</td>
<td>Type of Degree Granted</td>
</tr>
<tr>
<td>Name of Medical Imaging Program</td>
<td>Location: city/state</td>
<td>Dates of Attendance</td>
<td>Type of program</td>
</tr>
</tbody>
</table>

Options for the CT or MRI programs: Place a checkmark (✓) next to the option of your choice:

_____ CT
Graduate from a Radiologic Technology, Nuclear Medicine or Radiation Therapy program first before proceeding to the Bachelor Degree in RIS for CT in the senior year. If you have not graduated from a radiologic technology program, be sure to complete the application form for that program first.

_____ MRI
Graduate from a Radiologic Technology, Nuclear Medicine or Radiation Therapy program first before proceeding to the Bachelor Degree in RIS for MRI in the senior year. If you have not graduated from a radiologic technology program, be sure to complete the application form for that program first.

(OVER)
Employment History

<table>
<thead>
<tr>
<th>Place(s) of Employment</th>
<th>Location: City/State</th>
<th>Dates of Employment</th>
<th>Job Title and Hours Per Week (Part or Full Time)</th>
<th>Job Supervisor</th>
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</thead>
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</table>

Clinical Site Placement
Placement depends on the number of students and the clinical site availability. Please list 2 clinical sites that you wish to be placed at:

________________________________________________________________________  _______________________________________________________________________

You must complete the following for your application to be considered.

1. **KSU Application Form**: You must be admitted to Kent State University to apply to the program. The KSU application form and fee must be remitted prior to the application deadline date.

2. **Transcripts**: You must have **official transcripts** sent directly from your high school, universities or colleges, or hospital based certificate programs attended to the Kent Salem Campus, prior to the application deadline date. Previous KSU students are exempt from this.

3. **Transfer students**: The Accuplacer/ALEKS testing for Kent State University must be completed for admission if you have not completed ENG 11011, College Writing I, MATH 11009, Modeling Algebra, MATH 10772 Modeling Algebra Plus or MATH 11010, Algebra for Calculus or MATH 10775 Algebra for Calculus Plus or their equivalent at a college or university.

4. **Technical Standards**: Please read the document on page 11 concerning the technical standards for admission into the program.

5. **Reasons for Interest and Goals**: on a separate page, type the reasons for your interest in CT or MRI as well as your career goals after graduation.

________________________________________________________________________  _______________________________________________________________________

**Signature** that all information submitted is complete and truthful   **Date**

Mail to:     Jan Gibson, M.Ed., R.T. (R)
             Kent State University Salem Campus
             2491 State Route 45 South
             Salem, Ohio  44460

Or Fax to:   330-337-4255  Attention: Jan Gibson
Or Scan & Email to: jjgibso1@kent.edu

13