

SALEM

RADIOLOGIC TECHNOLOGY

Associate of Applied Science Degree

Program Information Packet

For Class Beginning JUNE 10, 2021



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The Radiologic Technology online application must be received by **February 1, 2021**
Rev 1-30-2020

A. Introduction to Radiologic Technology at the Salem Campus

Thank you for your interest in the Radiologic Technology program at the Salem Campus of Kent State University. Graduates earn an Associate in Applied Science degree in Radiologic Technology (66 semester hours). The program begins every June at the start of summer I semester.

The program educates students to perform radiologic procedures. Radiologic Technology is a branch of health care delivery that utilizes x-rays to aid in the diagnosis and treatment of medical conditions. Through a blend of classroom education at the Salem Campus (during daytime hours only) and clinical education at a hospital (clinical site), students learn to apply theoretic principles to clinical practice in patient care, radiographic imaging and equipment operation, patient procedures and radiation safety. Employment upon graduation is not guaranteed and depends on current economic and professional trends.

Admission to the program is on a selective basis due to the limited number of students approved for each clinical education setting affiliated with the program. Approximately 50 applications were received in 2020 and a percentage of the student positions available receive an interview, followed by the acceptance of approximately 22 students. The class size is determined by the JRCERT limits of clinical supervising technologists to student ratios.

Carefully read the following application packet for important information, especially the program admission requirements and the application process. Take note of deadlines for the application submission, KSU ACCUPLACER and ALEKS testing and transcripts submission.

The Bachelor of Radiologic and Imaging Sciences degree is also offered at the Salem Campus and may be pursued after completion of the radiologic technology program. The degree requires 120 credit hours for graduation. See page 3 for more information.

B. National and State Program Accreditation

1. The program is nationally accredited by the Joint Review Committee on Education in Radiologic Technology and follow *The Standards for an Accredited Educational Program in Radiologic Technology*. Contact: www.jrcert.org or by phone: 312-704-5300 or at 20 N. Wacker Drive, Suite 2850 Chicago IL 60606
2. The program is also accredited by the Ohio Department of Health. Contact the ODH at 614-644-2727.

C. Careers in Medical Imaging

Radiologic Technologist: Performs exams using x-ray equipment to obtain an image of the body. KSU offers the Associate of Applied Science degree in Radiologic Technology at both the Ashtabula and Salem campuses. Graduates may pursue advance career mobility into education, management, sales, application specialist, mammography or cardiovascular interventional technology as well as other options listed below.

Computed Tomography (CT) Technologist: Performs CT scans that image sectional views of internal structures. Applicant must be a radiologic technologist, nuclear medicine technologist or radiation therapist prior to program start. CT is offered as a concentration in the Bachelor of Radiologic and Imaging Sciences degree. Contact Jan Gibson at jjgibso1@kent.edu or at 330-337-4223. It is offered totally online or as a hybrid program with 5 courses offered on campus.

Magnetic Resonance Imaging Technologist: Performs MRI exams using computers and a combination of strong magnetic currents and radio waves to obtain images of human anatomy. Applicant must be a radiologic technologist, nuclear medicine technologist, or radiation therapist prior to program start. MRI is offered as a concentration in the Bachelor of Radiologic and Imaging Sciences degree. Contact Jan Gibson at jjgibso1@kent.edu or at 330-337-4223. It is offered totally online or as a hybrid program with 5 courses offered on campus.

Diagnostic Medical Sonographer (DMS): Perform exams by using sound waves to produce internal images of the human body. DMS is offered as a concentration in the Bachelor of Technology degree in Radiologic and Imaging Sciences at KSU Salem. Student must be at least a senior in college to apply. Deadline is April 1st.

Option I at KSU: Completion of a Radiologic Technology program and Kent Core courses followed by completion of the Diagnostic Medical Sonography program.

Option II at KSU: Completion of three years of college in specific coursework that includes Kent Core courses & electives followed by the DMS program. Contact Cyndi Peterson for information on the program at clpeters@kent.edu or at 330-337-4277.

Radiation Therapist: Administers radiation to benign (non-cancerous) or malignant (cancerous) lesions by using a strong radiation beam. Radiation Therapy is offered as a concentration in the Bachelor of Technology degree in Radiologic and Imaging Sciences at KSU Salem. Student must be at least a senior in college to apply. Deadline is April 1st.

Option I at KSU: Completion of a Radiologic Technology program and Kent Core courses followed by completion of the Radiation Therapy program.

Option II at KSU: Completion of three years of college in specific coursework that includes Kent Core courses and electives followed by the Radiation Therapy program. Please contact Victoria Migge for information on the Radiation Therapy program at vmigge@kent.edu or at 330-337-4133

Nuclear Medicine Technologist: Administers radioactive pharmaceuticals to patients and views the image on gamma cameras in order to evaluate organ function. This program is no longer offered at Kent State University.

View the website at www.kent.edu/columbiana/radiology

D. The Mission of the Radiologic Technology Program

The mission of Kent State University Salem Campus is to educate radiologic technology students in the knowledge, skills and attitudes to become qualified, professional 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.

E. The Goals and Student Learning Outcomes

Goal One: Students will be able to utilize critical thinking and problem-solving skills effectively in the practice of radiologic technology.

Learning Outcome: Students will identify errors and perform corrective actions in positioning and image quality during image analysis.

Learning Outcome: Students will adapt procedures for non-routine patients.

Goal Two: Students will be able to communicate effectively in oral and written form with patients and members of the health care team.

Learning Outcome: Students will demonstrate effective oral communication skills. Students will demonstrate effective written communication skills.

Goal Three: Students will be able to perform radiographic procedures successfully and consistent with entry-level requirements of a registered radiologic technologist.

Learning Outcome: Students will accurately perform procedures in the clinical setting.

Learning Outcome: Graduates will satisfactorily perform procedures.

Goal Four: Students will be able to determine the value of professional growth and development and to conduct themselves in a professional manner.

Learning Outcome: Students will interpret and critique professional conduct as demonstrated in the clinical setting.

Learning Outcome: Students will perform procedures in a professional manner.

F. Program Effectiveness Measures and Data

1. Students will complete the program in 24 months.
2. Graduates will pass the ARRT certification exam on the first attempt when taken within six months of graduation.
3. Graduates will be employed within twelve months of graduation.
4. Graduates will be satisfied with their education in radiologic technology.
5. Employers will be satisfied with the education of program graduates.

Grad Year	Annual Program Completion Rate: Total # of students who complete <u>the program within 36 months</u> Total # of students who initially began the program with their cohort	ARRT Exam Pass Rate Total # of students who <u>took the ARRT Exam</u> The total # of students who passed on their first attempt within 6 months	Job Placement Rate: Total of graduates <u>employed in radiology</u> The # of graduates who actively sought employment
2019	15/20 = 75.0%	15 took exam/15 passed = 100%	14/14 = 100%
2018	16/20 = 80.0%	16 took exam/16 passed = 100%	15/15 = 100%
2017	19/20 = 95.0%	19 took exam/19 passed = 100%	19/19 = 100%
2016	20/21 = 95.2%	20 took exam/20 passed = 100%	19/19 = 100%
2015	18/20 = 90.0%	18 took exam/18 passed = 100%	17/17 = 100%
	5 year Program Completion Rate: 88/101 = 87.1%	5 year ARRT Pass Rate: 88 took exam/88 passed exam = 100%	5 year Job Placement Rate: 84/84: 100%

G. Admission Requirements for 2021

Review the following minimum requirements. The completion of these requirements does not guarantee an interview or acceptance into the program. It is the applicant's responsibility to review transcripts from high school and/or from college/university to determine eligibility in meeting program requirements. Please submit a Radiologic Technology application only if you meet all of the following requirements:

1. **Graduation from High School** or GED completion prior to program start.
2. **Algebra** with a grade of "C" or better
High School Students: complete algebra course with a grade of C or better.
College Students: If high school algebra grade is not a "C" or better, then a developmental or college level algebra course must be completed at a university by the end of fall semester 2020.
At Kent State University, students who test into MATH 00020 or 00021 (Pre-Algebra or Basic Algebra I) must complete them with a grade of C or better to meet the math prerequisite prior to the radiologic technology program start date. Note that MATH 11009, Modeling Algebra or MATH 10772 Modeling Algebra Plus must be completed before graduation from the radiologic technology program to meet degree requirements.
3. **Biology** or Anatomy & Physiology with a grade of "C" or better
High School Students: complete biology by graduation with a "C" or better.
College Students: If applicant did not have high school or college biology with a grade of "C" or better, then a biology course must be taken at college and completed by the end of fall semester 2020. Recommended course is BSCI 10001, Human Biology or BSCI 11010 and 11020 Foundational Anatomy & Physiology I & II or BSCI 21010 and 21020, Anatomy & Physiology I & II.
4. **Chemistry** with a grade of "C" or better
High School Students: complete chemistry by graduation with a "C" or better.
College Students: If an applicant did not have high school chemistry with a grade of "C" or better, then a chemistry course must be taken at a university and completed by the end of fall semester 2020.
KSU students who did not complete high school chemistry or did not receive a grade of C or better are encouraged to take CHEM 10030, Chemistry in Our World, to be better prepared for CHEM 10050, Fundamentals of Chemistry or CHEM 10055, Molecules of Life. Prerequisite for Fundamentals of Chemistry is MATH 00023, Basic Algebra III or MATH 10772 Modeling Algebra Plus.
5. **Cumulative Grade Point Average of at least 2.75** (on a 4.00 scale) from your most recent education record. High School Students: Cumulative GPA reviewed on transcript. College cumulative GPA will be considered for applicants who have previously or are currently attending a college or university and these applicants must have at least a cumulative GPA of 2.75 by the end of fall semester 2020.
6. **Job Shadowing: 4 hours** are required, 8 hours recommended. See p.17-20.
7. **Radiology Information Session:** Must complete 1 session within previous 24 months. See page 8.

H. Application Process

Applicants who are applying to the radiologic technology program should follow the process below if applying for the program that begins **June 10, 2021**.

The following steps must be completed for your application to be processed:

1. Apply to Kent State University:

Complete and submit the Kent State University Application for admission and include the \$40.00 application fee. This step is NOT necessary if you are currently attending or have previously attended KSU and have not attended any other college or university since attending Kent. If you attended KSU and then attended another college or university, you must reapply to Kent State.

2. Send Official High School and College Transcripts:

Arrange for official transcripts (sent directly from a school) to be sent from high school and all colleges or universities previously or currently attended.

If mailing transcripts have them sent to: Kent State Salem Campus, 2491 State Route 45 South, Salem, Ohio 44460. If transcripts are being sent electronically, have them sent directly to Kent State University.

- a. Applicants who have previously attended or are currently attending any campus of Kent State University need not submit any transcripts.
- b. For high school or transfer students, ensure that high school and/or college transcripts are submitted to Kent State by **February 1, 2021**.
- c. If taking a math or science course in spring 2020, high school or transfer students should submit a spring class schedule or a transcript that lists spring semester courses to receive points for math and science courses.
- d. **TRANSFER STUDENTS:** Students transferring credits from another college or university should apply to Kent State and have official transcripts sent. Once notification of acceptance to Kent State and transfer credit evaluation are received, the student should make an advising appointment with the radiology program director. The applicability and final determination of transfer credit rests with Kent State University, not with the radiology program. Students can use www.kent.edu/transfercenter as a guide to potential applicability of transfer credits and equivalent courses.

3. Complete Basic Skills Assessment Testing (Accuplacer & ALEKS Testing)

Prior to program acceptance, applicants must demonstrate competence for college level coursework in reading, writing and math by doing the following:

- a. Complete ACCUPLACER testing in reading and writing to determine College Writing course placement. Students may place into reading and/or writing courses prior to College Writing I.
Exempt from testing: Students with a specified level of ACT scores or students who have successfully completed College Writing I or English Composition I at another college or university.

- b. Complete ALEKS testing to determine placement in math courses. Students testing into developmental math courses (MATH 00020, 00021, 00022, or 00023) must complete them the first year at any KSU campus. Students who have successfully completed college algebra (equivalent to KSU MATH 11009 or 11010) at another college/university are exempt from testing. Arrangements to take the Accuplacer and/or ALEKS test is done by contacting any KSU regional campus. At the Salem Campus, call 330-337-4190. There is no fee for the test. This testing must be done by **Feb. 1, 2021**.

4. Complete the Radiologic Technology Application ONLINE:

Application Instructions for the Radiologic Technology Program:

The ONLINE application form for the radiologic technology program at Salem is available for submission from November 1 to February 1st at this website:

<https://www.kent.edu/columbiana/associate-applied-science-radiologic-technology> and select 2020 Application Now Available. There is no fee required to apply.

Before completing the online application, be sure you meet all program admission requirements by reading the provided online information.

Application Status: Radiology secretary Sherry DeWitt will confirm receiving your application through your Kent State e-mail.

I. Application Review

1. The admissions committee of the Radiologic Technology program will review applications and transcripts in early February.
2. Approximately 50 applications were received in 2020. A percentage of applicants with the highest points are interviewed. **Approximately 22 students are selected into the program.** Clinical education sites have limited availability, restricting the number of students chosen.
3. Pursuant to Federal Regulations & State Law, KSU is committed to providing all persons equal access to its programs 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.

J. Change of Program to Change Major to Radiologic Technology

Applicants may complete a Change of Program to change their major to Radiologic Technology. This provides information to Financial Aid that courses are being pursued toward a specific major. This change does NOT signify that you are accepted into the radiologic technology program since the program has a selective admission process. Go to Flashline, select the Student tab, then Advising and GPS tab. Choose link to: Change Undergraduate Program. Select change program. In the drop down box type radiologic technology AAS and choose Salem Campus. Follow remaining instructions.

K. Point System for Selection of Students

Applicants receive points based on information stated below:

1. **Cumulative Grade Point Average (GPA):** Points are assigned to a cumulative GPA of 2.75 and above based on the cumulative GPA and the number of credit hours completed. More points are assigned for higher GPA's and more credit hours.
2. **Math and Science Courses:** Points are assigned to math and sciences courses based on the grades received from high school and/or college.
Point assignment: A = 4 points, B = 3 points, C = 1 point, D or F = 0 points
 - Grades from the 3 most recent completed courses in math.
 - Grades from the 2 most recent completed courses in biology (Anatomy/Physiology)
 - Grades from the 2 most recent completed courses in chemistry.
 - If there are not 2 completed biology or chemistry courses and the student registers for one or both in spring semester 2021, two points will be awarded for each course.
 - If a student has only 1 biology or 1 chemistry course or no physics course, students are advised to take PHY11030 Seven Ideas That Shook the Universe or PHY 21430, Frontiers in Astronomy for additional points.
3. **Radiology Information Session Attendance:**
 - Students are **REQUIRED** to complete 1 Radiology Information Session prior to the application deadline. This one hour session provides information on the Associate of Applied Science Degree in Radiologic Technology and the Bachelor Degree in Radiologic and Imaging Sciences. Applicant's signature of attendance is required.
 - Only one session, within 24 months of the Feb. 1, 2021 deadline, is required.
 - Tentative presentation dates: **Wednesday, October 14, 2020; Thursday, November 12, 2020, Wednesday, December 2, 2020 and Tuesday, January 12, 2021** at the Salem Campus. Another session will be scheduled at the Trumbull Campus in November and Stark Campus in December. An **online version** with a required quiz is also available for those unable to attend a campus presentation. Refer to the following website: <https://www.kent.edu/columbiana/radiology> and select Information Session for more information.
 - Please call radiology secretary, Sherry DeWitt, at 330-337-4227 for reservations.
4. **Job shadowing/observing:** 4 hours are mandatory, 8 hours gives you 2 points. See page 16 for full description.
5. **Employment Status:** Points are assigned for work experience:
 - One point for part-time non-medical employment or a full time summer job
 - Two points for full time non-medical employment (minimum of 32 hours/week)
 - Three points for part-time medical employment (caring for patients)
 - Four points for full time medical employment (minimum of 32 hours/week)

L. Interviews, Clinical Placement, Acceptance, Alternates

1. **Interviews:** after program officials review points, a percentage of applicants with the highest points who meet program admission requirements will be sent information via KSU email concerning a clinical and campus interview.

Points are based on cumulative grade point average, math and science grades, job shadowing, radiology information session attendance, and work experience if applicable.

Clinical Interview: Applicants will complete an assigned clinical interview at one of the program's clinical sites prior to the KSU Salem campus interview.

Campus Interview: The campus interviews are scheduled on 4 Fridays in late February and early March. Final selection is based on points from those items previously listed as well as points from the campus and clinical interviews. The number of students chosen is based on student capacity at each clinical site.

2. **Clinical Placement:** Attempts are made to place students close to home but is not always possible. **KSU Salem Clinical Education Sites Include:** Akron City Hospital (Summa), Barberton Hospital (Summa), East Liverpool City Hospital, Salem Regional Medical Center, St. Elizabeth Boardman Hospital, St. Elizabeth Youngstown Hospital, St. Joseph Warren Hospital, Trumbull Regional Medical Center and UH Portage Medical Center in Ravenna.
3. **Acceptance:** Notification of acceptance or non-acceptance via KSU email in late March.
4. **Alternates:** Some alternates are selected to replace an applicant who does not accept program placement. Alternates are able to replace an applicant up to the program start date. Those who are not accepted may reapply and should seek advisement from the Radiologic Technology Program Director.
5. **Non-accepted students** should contact Jan Gibson for advising.

M. Program Requirements and Costs for Accepted Students

1. Accepted students must have a **minimum of 2.75 cumulative GPA by the end of spring** prior to admittance into the technical study of the radiologic technology major.
2. **Attend Orientation Meeting in mid-May:** Accepted students must attend an orientation meeting in mid-May to schedule summer semester courses and to discuss program admission requirements, clinical dress codes, ordering scrubs and program policies.
3. **Scrubs:** students must purchase KSU royal blue scrubs at a cost of approximately **\$150** for 2 sets of scrubs and a lab jacket. Students can try on scrubs during the orientation meeting in May. Ordering instructions will be provided at that time.
4. **CastleBranch Record Keeping Service:** The program uses the CastleBranch Company to maintain records for immunizations, physicals, background checks, drug screening and CPR at a cost of **\$160** to be paid prior to the program start. It includes:
 - a. **Electronic federal and state criminal background checks** must be completed by Fast Fingerprints in early May at area locations. There will be more information upon acceptance. Cost is part of the CastleBranch fee. Applicants must **fully disclose any misdemeanor or felony records** and seek advisement from the radiology program director prior to applying. Those with records will be advised to contact the American Registry of Radiologic Technologists Ethics Committee prior to the program start at www.arrt.org
 - b. **Drug screening** must be completed by Quest Labs. Information on scheduling appointments at their locations will be given in the acceptance letter. Students must receive a negative drug screen for final program acceptance. Contact the radiology secretary for questions. Cost is part of the CastleBranch fee.
 - c. **A physical exam and evidence of standard immunizations.** Students must have a physical exam, records of immunizations (tetanus booster, MMR, Varicella (chicken pox) or titers completed and have a 2 step TB (PPD) test within 12 months of the program start. Hepatitis B vaccine is optional but encouraged. An annual flu shot (to be done in fall 2021) is required. Costs are paid by the student independently.
5. **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 and requires a the BLS Provider level. The program schedules a CPR certification class in May for accepted students. Cost is approximately **\$45.00**.
6. **Trajecsys:** This electronic documenting service is for tracking student clinical attendance, evaluations and competencies at a cost of **\$150** for the program.
7. **Textbooks & Note packets** for Radiologic Technology is approximately \$1,500.
8. **Course Fees:** for the following radiologic technology courses: Patient Care Management: \$33; Clinical Education I-VI \$50 for each course. The fees pay for patient assessment/vital sign supplies for the lab and radiation monitoring badges.
9. **Tuition** for the associate degree if completed in 2 years is approximately \$14,000. This varies based on the number of courses needed each semester and can increase if online courses are taken.

N. TECHNICAL STANDARDS

The Radiologic Technology program at Kent State University has established essential functional requirements necessary for enrolled students to acquire the knowledge, skills, competencies and values of an entry level radiologic technologist. The technical standards of admission 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 Radiologic Technology 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 cannot 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, a KSU Student Disabilities Coordinator will validate their need for accommodation and will work with the program to determine if reasonable accommodation can be made. This will take into account if the accommodation would jeopardize technologist/patient safety or undercut a vital element of a course or clinical experience.

Radiologic Technology students must demonstrate:

1. Sufficient **communication skills** to communicate effectively and sensitively with patients, health care 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 and 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. 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. 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. 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. Have the intellectual and emotional skills to **exercise discretion** in handling confidential medical information.
8. Have 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. Able 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.

O. Pregnancy Policy

For Applicants and Students Enrolled in the Radiologic Technology Program

Options:

1. **No declaration of pregnancy.** The student progresses through the program with no declaration to program or clinical personnel. No change in rotations.
2. **Written notice of voluntary declaration.**
USNRC: Declared pregnant woman means a woman who has voluntarily informed the licensee, in writing, of her pregnancy and the estimated date of conception. The declaration remains in effect until the declared pregnant woman withdraws the declaration in writing or is no longer pregnant. If the student chooses to disclose her pregnancy, she must immediately provide written notification to the Program Director and the Clinical Coordinator. The notice would indicate the expected due date. Declaration allows the student to make an informed decision based on her individual needs and preferences.

The student will be provided with USNRC Regulatory Guide 8.13 Instruction Concerning Prenatal Radiation Exposure with its appendix of the United States Nuclear Regulatory Commission. The student must then sign a witnessed "Attest" form that was read and discussed. In the absence of this voluntary, written disclosure, a student cannot be considered pregnant.

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 gestational period and no more than .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.

Voluntary declaration has the following options:

- a. **Continuing the educational program with modification** in clinical assignments.
The program would offer clinical component options such as clinical reassignments from areas such as fluoroscopy, mobile procedures and nuclear medicine. The student 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. Any time missed from clinical education must be made up per the attendance policy. Graduation depends on meeting all didactic and clinical requirements.
- b. **Continuing the educational program without modification** in clinical assignment or interruption. The clinical coordinator would maintain the standard clinical rotations through all areas.
- c. **Leave of Absence from the program:** If the student takes a leave of absence from the program, the place of re-entry would depend on many factors. Students may be placed at the beginning of the program or somewhere within the program based on their academic and clinical status and standing when leaving.
- d. **Option for written withdrawal of declaration:** A student may withdraw declaration of pregnancy at any time during the pregnancy. The revocation of pregnancy declaration notifies the program of the student's choice to revoke her previous election to apply federal and/or state radiation dose limits to an embryo/fetus as a condition of her radiation related clinical experiences in the program.

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

P. Curriculum: Developmental and General Studies Courses

The radiologic technology curriculum is provided by the American Society of Radiologic Technologists (www.asrt.org) and is two years in length once accepted into the program. Applicants are encouraged to take the following courses prior to program admission. This allows accepted students to focus on radiologic technology courses during the program with greater success. Completion of these courses does not guarantee admission into the program.

1. Developmental Courses

The following is a list of developmental courses that may be required for the applicant to take based on ACT scores or scores achieved on the Basic Skill Assessment Test (Accuplacer and ALEKS computerized testing). This test may be done for placement in English and math courses. All developmental courses must be completed within the first 29 hours of coursework at Kent State University and all attempts to complete these courses should be made prior to program start. Applicants requiring developmental coursework who have not completed any of the general courses may not be accepted into the program because of the course overload required. Instead, the applicant should complete required courses and reapply the following year.

- RC 00003 Core Reading Strategies
- RC 00006 Critical Reading Strategies
- ENG 01001 Introduction to College Writing-S (Stretch)
- MATH 00020, 00021, and 00022, Pre-Algebra and Basic Algebra I-II
Each module is 7.5 weeks in fall or spring with student working at own pace.
MATH 00023 is offered at some KSU campuses but at Salem it is part of MATH 10772 Modeling Algebra Plus.

2. Required General Courses

The following courses may be taken **prior to** admission into the program OR **during** the course sequence for the degree in Radiologic Technology as long as the applicant meets program admission requirements in algebra and chemistry.

- UC 10097 Destination Kent: First Year Experience
- BSCI 11010, 11020 Foundational Anatomy and Physiology I and II (3 hrs each)
or BSCI 21010, 21020 Anatomy and Physiology I and II (4 hrs each)
- CHEM 10050 Fundamentals of Chemistry or CHEM 10055 Molecule of Life
- ENG 11011 College Writing I or ENG 11002 College Writing I Stretch
- AHS 24010 (1 credit hour) or HED 14020 (3 credit hours) Medical Terminology
- MATH 10772, Modeling Algebra Plus or MATH 11009, Modeling Algebra
or MATH 11010, Algebra for Calculus
- PSYC 11762 General Psychology
- One Kent Core Humanities or Fine Art course (see page 15)

3. Recommended courses prior to program start:

- BSCI 10001, Human Biology (if only one biology course or a biology grade of C or below in high school or college)
- CHEM 10030, Chemistry in Our World (if no high school chemistry or a grade of C or below in chemistry in high school or college)
- PHY 11030, Seven Ideas that Shook the Universe or PHY 21430, Frontiers in Astronomy if only 1 biology or chemistry course with a C or below.

4. **Transfer Courses:** go to www.kent.edu/transfercenter to check information about course transfers from other colleges or universities in Ohio or other states. Student transcripts are evaluated by the Transfer Center at the Kent Campus. Approximately 70% of the transfer course content must match the equivalent course at Kent.

Q. Radiologic Technology Two Year Course Sequence for 2021-2023

Semester	Course Number	Course Name	Sem. Hrs.	Days of the Week for Campus or Clinical** R = Thursdays
First Year Summer Semesters	* AHS 24010 or * HED 14020 *UC 10097	Medical Terminology or Medical Terminology *Destination Kent State: 1 st Year Experience	1 or 3 1	See schedules See schedules See schedules
Sum I	RADT 14003	Introduction to Radiologic Technology	2	M, T, W +see note
Sum II	RADT 14005	Clinical Education I	1	R, F (8 weeks)
Sum III	RADT 14006	Radiographic Procedures I	1	M,W
			6	Total for summer
First Year Fall Semester	*BSCI 11010 RADT 14016 RADT 14018 RADT 14021 RADT 14015	*Foundational Anatomy & Physiology I Patient Care Management Imaging Equipment Radiographic Procedures II Clinical Education II	3 2 2 4 3	M,W M,W M,W M,W T, R, F
			14	Total for fall
First Year Spring Semester	*CHEM 10050 or CHEM 10055 *BSCI 11020 RADT 14034 RADT 14024 RADT 14025	*Fundamentals of Chemistry or *Molecules of Life *Foundational Anatomy & Physiology II Image Acquisition and Processing Radiographic Procedures III Clinical Education III	3 or 3 3 2 4 3	M,W M,W M,W M,W M,W T, R, F
			15	Total for spring
Second Year Summer II Semester	*ENG 11011 Hum/Fine Art RADT 14085	*College Writing I *Kent Core Humanities or Fine Art Clinical Education IV	3 3 2	See Schedules See Schedules M,T,W,F clinicals R class day
			8	Total for summer
Second Year Fall Semester	*MATH 11072 Or MATH 11009 RADT 24014 RADT 24008 RADT 24016 RADT 24015	*Modeling Algebra Plus or Or Modeling Algebra Advanced Imaging Radiobiology and Radiation Protection Imaging Physics Clinical Education V	5 or 4 2 3 3 3	See schedules See schedules T, R T, R T, R M,W,F
			14-15	Total for fall
Second Year Spring Semester	*PSYC 11762 RADT 24028 RADT 24025 RADT 24048 RADT 24058	* General Psychology Pathology in Medical Imaging Clinical Education VI Elective: Radiologic Techniques Elective: Diversified Employment Skills	3 3 3 3 3	See schedules T, R M, W, F T, R T, R
			9-15	Total for spring

* Courses marked with an * may be taken prior to entry or during the Radiologic Technology program. Students should seek advisement from the Radiologic Technology Program Director for these courses. All RADT courses require admittance to the program and must follow the stated sequence.

+ Rad.Tech. Orientation is held during the program's first two weeks with students on campus Monday-Friday.

Anatomy and Physiology Courses: Students may take Foundational Anatomy and Physiology I & II prior to the program start. These courses are meant for allied health students but are only offered at KSU Ashtabula, East Liverpool, Geauga (Twinsburg) and Salem campuses.

The following courses are acceptable substitutions: BSCI 21010, 21020 Anatomy and Physiology I/II or ATTR/EXSC 25057/25058 Human Anatomy and Physiology I/II. Please note these courses are for Nursing students or Athletic Trainer/Exercise Science students.

The anatomy and physiology courses must be taken within the past **five** years prior to program admission.

Note: Students will be assigned clinical rotations for some weekend, afternoon and midnight shifts throughout the program. Each clinical education day is 8.5 hours long that includes lunch.

As part of the requirements for an Associate of Applied Business, Associate of Applied Science or Associate of Technical Study degree, students complete minimum 15 credit hours from the Kent Core. 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	11009 Modeling Algebra	4
or MATH	10772 Modeling Algebra Plus	5
MATH	11010 Algebra for Calculus	3
or MATH	10774 Algebra for Calculus Stretch 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
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FINE ARTS IN FINE AND PROFESSIONAL ARTS

ARCH	10001 Understanding Architecture	3
ARCH	10011[2] Global Architectural History I,II.....(each)	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	22111 The Understanding of Music	3
US	G 22121 Music as a World Phenomenon	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.
 PSYC 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
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Select 3 hour course from the Kent Core Requirements that is in a different discipline area other than Psychology

ANTH	G 18210 Global Cultural Diversity: Anthropol. Perspective	3
ANTH	G 18420 Archaeology: Ancient Lives and Cultures	3
CACM	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 Minimum 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	10011 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..... (each)	4
GEOG	21062 Physical Geography	3
GEOG	21063 Physical Geography Lab	1
GEOL	11040 How the Earth Works	3
GEOL	11041 How the Earth Works Lab	1
GEOL	11042 Earth & Life Through Time	3
GEOL	11043 Earth & Life Through Time Lab	1
GEOL	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	13001[2] General College Physics I, II..... (each)	5
PHY	13011[2] College 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..... (each)	5

S. Program Schedule

1. Summer I of the first year (5 weeks): Radiologic Technology campus courses are scheduled during daytime hours on Monday-Friday for the first two weeks for orientation. During the last 3 weeks, students attend on Monday-Wednesday.
2. Summer- Clinical Education I: 8 weeks from June 28-August 3, 2018. Students attend their assigned clinical site (hospital) on Thursdays and Fridays.
3. Summer III of the first year (5 weeks): Radiologic Technology campus course and labs are scheduled on Mondays & Wednesdays.
4. Fall and spring semesters of the first year (15 weeks each): Radiologic Technology and Anatomy/Physiology campus courses and labs are scheduled during daytime hours on Mondays & Wednesdays with clinicals on Tuesdays, Thursdays, and Fridays.
5. Summer II of the second year (8 weeks): Students attend the Salem campus on Thursdays with clinicals on Mondays, Tuesdays, Wednesdays and Fridays.
6. Fall semesters of the second year (15 weeks): Radiologic Technology campus courses are scheduled on Tuesdays & Thursdays with clinicals scheduled on Mondays and Wednesdays.
7. Spring semesters of the second year (15 weeks): Radiologic Technology campus courses are scheduled on Tuesdays & Thursdays with clinicals scheduled on Mondays, Wednesdays and Fridays.

Clinical assignments consist of 8.5 hour days that include lunch. The majority of assignments are during daytime shifts however students are assigned to a limited amount of afternoon and midnight shifts during the program. If a student is employed outside of the program (i.e., McDonalds, Subway, etc.), the work hours must be scheduled around the program's clinical schedule.

Smoking: KSU Salem is a smoke-free campus. All clinical site grounds are smoke free. Many of the program's clinical sites will not hire graduates who test positive for nicotine.

T. National Certification and State License Requirements

1. National Certification Requirements
After successful completion of all degree requirements, graduates of the program will be permitted to take the *American Registry of Radiologic Technologists* (www.arrt.org) certification examination upon authorization of the program director. Application fee: \$200.

Students who have been **convicted of a misdemeanor or felony crime** may or may not be able to take this examination based on a review by the ARRT ethics review board that determines eligibility. An application to this review board would be completed at the start of the program for those students accepted into the program who have a conviction. The ARRT web site (www.arrt.org) has more information under their Ethics tab.

2. State Licensing Requirements:
Graduates of the program who wish to be employed in the state of Ohio must obtain a state license as a radiographer from the Ohio Department of Health. Application fee: \$65.

1. **First 4 hours of job shadowing:** contact one of the clinical sites listed below and schedule **4 hours of mandatory shadowing** in the radiology (x-ray) department. Recommend it be completed between 8:00 am to 12:00 pm. Schedule job shadowings in a timely fashion. January appointments fill quickly.

Contact information of clinical sites affiliated with KSU Salem for job shadowing:

Akron City Hospital (Summa Health) → Email HR Department-Liz Tomic at TomicE@summahealth.org

Barberton Hospital (Summa Health) → Subject line: radiology shadowing

East Liverpool City Hospital (330) 386-2022—HR Department

Salem Regional Medical Center (330) 332-7636-- Chris Thompson

St. Elizabeth Boardman Hospital (330) 480-2220-- Caren Fontanarosa

St. Elizabeth Youngstown Hospital (330) 480-2220-- Caren Fontanarosa

St. Joseph Warren Hospital (330) 480-2220-- Caren Fontanarosa

UH: Portage Medical Center (330) 297-2956-- Jen Fannin

Students may shadow at other hospitals, but the applicant must be evaluated using our forms.

2. **Second Job Shadowing: 2 points are earned** in the point system when completing 4 additional hours of job shadowing. It is recommended to complete the second 4 hours at a different hospital to see various procedures & equipment. Take a second evaluation form with you and have the documentation form completed as well. Extra shadowing beyond 8 hours is not recommended due to limited clinical availability.
3. **FORMS: Documentation Form:** take the documentation form with you to have the assigned radiologic technologist at the clinical site document your job shadowing experience.
Evaluation Forms: take one evaluation form to each clinical site and submit to the radiologic technologist assigned to you. Upon completion, the technologist will fax the form to us. Please read the evaluation form to view characteristics you will be evaluated on. These are reviewed when selecting students.
4. **Reapplying:** it is **required** to complete four additional hours within 12 months of the application date to demonstrate continued interest in the program. These are in addition to the previous hours completed.
6. **Deadline:** The shadowing must be within 24 months of the **February 1, 2021 application deadline**.
7. **Dress Code:** Applicants must dress in a professional manner to include dress/casual pants with a short or long sleeve shirt and appropriate shoes (athletic shoes are acceptable). Applicants must not wear T-shirts, sleeveless, or low-cut tops for women; jeans or shorts; or open toed shoes. No facial piercings, hoop or dangling earrings, large necklaces or bracelets are permitted. All tattoos must be covered. No extreme hair colors. No perfume, cologne, or scented lotions. Failure to follow this code may result in the applicant not completing the shadowing.
8. **Code of Conduct:** As a visitor it is expected that the applicant will respect the employees' efforts to conduct themselves as courteous professionals. Although the student experience is observation only, the job shadowing program is intended to be an interactive learning process.
9. **HIPAA:** All information must be kept confidential to ensure **patient privacy** to follow HIPAA policies.
10. **Cell Phone/Smart Watch Use:** These devices must be silenced and stowed away during shadowing. The use of electronic devices while shadowing will reflect on your evaluation by the technologist.
11. **Infection Control:** Infection control is always important to an applicant's well-being and the patients. Hand washing is an important method to prevent infection to the patient and applicant so wash hands frequently.
12. **Flu shot from the current flu season is required** (October to March). Some healthcare facilities will allow a mask to be worn. East Liverpool City Hospital requires a **TB test** prior to the shadowing.
13. **Breakfast:** It is recommended that applicants **eat breakfast** prior to shadowing to prevent light-headedness.

KSU Salem Radiologic Technology - DOCUMENTATION FORM

Applicant's Name _____ Date _____
 Print Name Clearly

Signature of Applicant _____

Documentation Form: take this documentation form with you to have the assigned radiologic technologist at the clinical site sign it to document your job shadowing experience. Complete this form for both job shadowings.

Name of Healthcare Facility Location: City/State	Date of Shadowing	Hours Completed	Printed Name of Radiologic Technologist at Healthcare Facility	Signature of Radiologic Technologist
SAMPLE: <i>Salem Regional Medical Center Salem, Ohio</i>	<i>1/7/2021</i>	<i>4</i>	<i>Jane Smith</i>	<i>Jane Smith, R.T.</i>
1st Job Shadowing				
2nd Job Shadowing				

SUBMIT THIS FORM before Feb. 1st to Sherry DeWitt, Radiology Secretary

Sherry DeWitt
 Radiology Secretary
 Kent State University Salem
 2491 State Route 45 South
 Salem OH 44460
 Phone: 330-337-4227
 Fax: 330-337-4255
 Email: sdewitt@kent.edu

Kent State University Salem Campus
Associate of Applied Science Degree in Radiologic Technology
2021 Job Shadowing Evaluation Form: Four Hours

Name of Healthcare Facility _____

Part I—Applicant: Print your name and phone number, read and sign the waiver statement if applicable and submit this form to the Radiologic Technologist observing you.

Applicant's Name _____ Cell Phone Number _____
 (Last Name, First Name)

Waiver: *I waive the right to review this completed form in order to afford an unbiased evaluation.*

Signature of Applicant _____ Date _____

Part II: Technologist: Please complete the information below. The form will be reviewed and kept confidential by the admissions committee. Fax to number below by February 1st deadline.

Please circle the characteristic that best evaluates the applicant during this shadowing:

Professionalism	Exceeds Expectations	Meets Expectations	Does Not Meet Expectations
Arrival Time	Applicant arrived on time	Applicant was 5 minutes late	Applicant was late 10 Or more minutes
Professional Appearance	Appearance was appropriate	Appearance was somewhat appropriate	Appearance was inappropriate
Interest in radiology procedures	Applicant showed a great deal of interest in the procedures performed	Applicant was somewhat interested in the procedures performed	Applicant showed little interest in the procedures performed
Concern for the Patient	Applicant showed concern for the patient	Applicant showed some concern for the patient	Applicant showed little concern for the patient
Communication Skills	Communication skills were very good	Communication skills were average/fair	Communication skills were poor
Professional Conduct	Professional conduct was appropriate	Professional conduct was somewhat acceptable	Professional conduct was inappropriate
Overall Impression	Applicant made a very good impression	Applicant made a good impression	Applicant made a poor impression

Comments: _____

Printed Name of Evaluating Technologist _____

Technologist Signature _____ Date _____

Technologists—please fax this form to Jan Gibson at 330-337-4255

Kent State University Salem Campus
Associate of Applied Science Degree in Radiologic Technology
2021 Job Shadowing Evaluation Form: Four Hours

Name of Healthcare Facility _____

Part I—Applicant: Print your name and phone number, read and sign the waiver statement if applicable and submit this form to the Radiologic Technologist observing you.

Applicant's Name _____ Preferred Phone Number _____
 (Last Name, First Name)

Waiver: *I waive the right to review this completed form in order to afford an unbiased evaluation.*

Signature of Applicant _____ Date _____

Part II: Technologist: Please complete the information below. The form will be reviewed and kept confidential by the admissions committee. Fax to number below by February 1st deadline.

Please circle the characteristic that best evaluates the applicant during this shadowing:

Professionalism	Exceeds Expectations	Meets Expectations	Does Not Meet Expectations
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Overall Impression	Applicant made a very good impression	Applicant made a good impression	Applicant made a poor impression

Comments: _____

Printed Name of Evaluating Technologist _____

Technologist Signature _____ Date _____

Technologists-please fax this form to Jan Gibson at 330-337-4255