

KENTUCKY COMMUNITY AND TECHNICAL COLLEGE SYSTEM

ELIZABETHTOWN COMMUNITY & TECHNICAL COLLEGE

**ASSOCIATE IN APPLIED SCIENCE**

**▪ RADIOGRAPHY ▪**

Program Brochure



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## *Associate Degree Radiography Program*

### **General Information**

The Associate Degree in Applied Science for the Radiography Program offers a comprehensive degree option for the radiography student. Graduates are eligible to take the American Registry of Radiologic Technologists (ARRT) certification exam. Visit [www.arrt.org](http://www.arrt.org) for more information about this important national examination.

The program consists of instruction in specialized courses in radiography with concentrated study in the basic sciences and mathematics. Courses include lecture, lab, and clinical. Students must achieve a minimum grade of “C” or higher in each biological/physical science, mathematics, and radiography course, with an overall cumulative GPA of at least 2.0.

Classroom instruction is closely correlated with guided clinical practice in affiliated health care agencies. The program requires five consecutive semesters of full-time day commitment with an average weekly involvement of 30 hours. This includes a summer session of clinical. Students are also required to complete an evening clinical rotation sometime during the program.

Some travel will be required to clinical sites in order to provide the student a well-rounded clinical experience. Current clinical affiliates are Hardin Memorial Hospital in Elizabethtown, Elizabethtown Diagnostic Imaging in Elizabethtown, Flaget Memorial Hospital in Bardstown, Taylor Regional Hospital in Campbellsville, Spring View Hospital in Lebanon, Twin Lakes Regional Medical Center in Leitchfield, Norton Hospital in Louisville, and Kosair Children’s Hospital in Louisville. Transportation to clinical affiliates is the responsibility of each student.

Regardless of the length of time a student attends a community college, a minimum of 24 credits for a degree must be completed with the Community and Technical College System. At least 25 percent of the approved curriculum credits must be completed at the community college granting the degree. Students must have a minimum cumulative grade point average of 2.0 (C) in order to be eligible for graduation.

The Associate Degree Radiography Program takes two years to complete after a student has been admitted into the program. The completion of prerequisites and other general education courses will require the student to have had one to two semesters of classes prior to admission. Students must earn a minimum of 69 hours as outlined in the curriculum. Any course in the curriculum may be taken prior to enrollment in the program with the exception of the radiography courses.

**Because there is no waiting list, a student who has applied and not been admitted to the radiography program, but wants to be considered again, must come to another preadmission conference and complete a new preadmission form (application).**

Radiography classes require a large amount of study time, lab practice and flexible scheduling. Therefore, to be successful in completing these courses, it is highly recommended that students plan a reasonable commitment of time and effort to the program.

## Mission

The mission of the ECTC Radiography program is to provide a high quality radiography education and training to develop a skilled and versatile radiography workforce.

## Program Goals:

### Goal 1: Students will gain clinical competency in performing radiographic procedures.

Student Learning Outcomes: Students will practice radiation protection.  
Students will perform accurate positioning skills.  
Students will provide appropriate patient care.  
Students will determine appropriate imaging factor selection.

### Goal 2: Students will develop critical thinking skills.

Student Learning Outcomes: Students will apply problem based learning skills to clinical situations.  
Students will critique images to determine diagnostic quality.

### Goal 3: Students will demonstrate communication skills.

Student Learning Outcomes: Students will use effective oral communication.  
Students will demonstrate written communication skills.

### Goal 4: Students will demonstrate professional values, ethics, and professional growth.

Student Learning Outcomes: Students will prepare a professional development plan.  
Students will summarize the importance of professional values and ethics.

## Occupational Description

The radiographer plays an important role on the medical team. A registered Radiographer is qualified to work in hospitals, doctors' offices, imaging centers, veterans' and military hospitals. As a skilled radiographer, you will adjust x-ray equipment to the correct setting for specific examinations, position the patient, make the required x-ray exposure, and practice Radiation protection.

As a Radiographer you will also assist the Radiologist (a physician who has specialized in the use of x-rays for diagnosis and treatment) in a variety of Radiographic procedures. In some cases the radiographer may be called upon to use mobile x-ray equipment in the emergency room, in surgery, or at a patient's bedside. The Radiographer is also responsible for the mental and physical comfort of patients while they are in the imaging department.

For more information about the profession, please visit the following web sites:

[www.asrt.org](http://www.asrt.org)

[www.arrt.org](http://www.arrt.org)

## ADMISSION REQUIREMENT POLICIES

### Eligibility

1. Enrollment in the Associate Degree Radiography Program is limited due to available resources and the large number of applicants.
2. All graduates of an accredited high school or those holding a GED certificate who are eligible to attend Elizabethtown Community and Technical College may apply to the radiography program. Admission to the program is open to all qualified students regardless of economic or social status, and without discrimination on the basis of race, color, sex, marital status, beliefs, age, national origin or disability

All students should possess:

- a. Sufficient visual acuity, such as needed in the accurate preparation and administration of contrast media and for observation necessary for patient assessment and nursing care;
  - b. Sufficient auditory perception to receive verbal communication from patients and members of the health team and to assess health needs of people through the use of monitoring devices such as cardiac monitor, stethoscope, IV infusion pumps, fire alarms, etc.;
  - c. Sufficient gross and fine motor coordination to respond promptly and to implement the skills, including the manipulation of equipment, positioning and lifting patients required in meeting health needs related to Radiologic technology;
  - d. Sufficient communication skills (speech, reading, writing) to interact with individuals and to communicate their needs promptly and effectively, as may be necessary in the individual's interest; and
  - e. Sufficient intellectual and emotional functions to plan and implement care for individuals.
3. All eligible applicants who have attended a pre-admission conference and completed the application procedure by March 1 will be considered for the fall Radiography class.

## Application Procedure

1. The following documents **must** be submitted to the College Admissions Office by **March 1** for the fall class:
  - a. **Completed application to ECTC** (with Radiography listed as the major);
  - b. **ACT or TABE Score reports.**
  - c. **Official transcripts from ALL colleges, universities, and/or vocational schools attended since high school.**
2. Attendance at one of the scheduled preadmission conferences is **mandatory**. A preadmission form (application) which indicates intent to enroll in the radiography program will be completed at the conference. Preadmission conference dates are listed on the back page of this brochure. These dates are also available on the Radiography link at the ECTC website ([www.elizabethtown.kctcs.edu](http://www.elizabethtown.kctcs.edu)).
3. Students may apply to the program while taking a prerequisite course
4. Prior to program admission documentation of computer literacy as defined by KCTCS is required prior to admission to IMG courses.
5. Once officially admitted to the radiography program CPR certification must be obtained prior to enrolling in IMG 104, IMG 106, and IMG 108 and certification must be kept current throughout the program.
6. Preference will be given to students without repeats in math & science courses.
7. **If a student is not admitted to the radiography program and desires to be considered again, attendance at another preadmission conference and a new preadmission form (application) must be completed. Preadmission forms are not retained from one semester to the next. Each semester's applicant pool is considered only once. There is no waiting list.**

## Admission Procedure

1. Preference **MAY** be given to those who complete the following:
  - a. ACT composite score of 21 or above; Compass, TABE, and KMATH scores (**Compass Algebra 36 or above, Reading 85 or above, and Writing 74 or above, KMATH 22 or above, and TABE Reading 12.9 and Writing 12.9 scores will be considered, but preference will be given to students with an ACT composite scores of 21 or higher**)
  - b. A cumulative GPA of 2.5 or better in 10 hours or more of college credit applicable to the Radiography program;
  - c. Completion of BIO 137 and 139, MAT 150, and PHY 171 or PHY 152 with a grade of “C” or higher.
  - d. Applicants who are registered and/or licensed in an allied health or nursing profession;
  - e. Applicants who have active status on a state nurse aide registry.
  - f. If there are more students that meet all the criteria than there are openings in the program then students will be ranked according to the following.
    1. ACT composite/Compass/ TABE Scores
    2. Radiography curriculum GPA
    3. Pre-requisites to be completed
2. When determining placement, the GPA will be calculated only from course work required in the Radiography curriculum, if the student has earned 10 or more hours of college credit in those courses.
3. Grades must be earned by the March 1 deadline for application to the fall (August – December) semester.
4. No remedial or developmental course work will be considered when calculating the GPA.
5. In the calculation of GPA, a student’s GPA is not rounded up. For example, if a student has a GPA of 2.46 it will NOT be rounded up to 2.5. The student may need to repeat a course or courses in order to raise the GPA.
6. Enrollment in Radiography classes is contingent upon successful completion of the prerequisites for first semester Radiography courses and good academic standing at the college.
7. The Admissions Committee meets to evaluate students’ placement in the criteria in order to fill the freshman Radiography class, and recommends admissions on the basis of the criteria within each category.
8. Letters are sent in April to all individuals who have completed applications notifying them of the selections by the Admissions Committee for the fall entering class.

**The Radiography Program Selection Information is located on page 8.**

Elizabethtown Community & Technical College  
Radiography Selection Criteria

The overall criteria of each applicant will be considered and ranked as indicated below:

**PREFERENCE #1**

Preference #1      Yes or No

ACT Comp 21 or above: \_\_\_\_\_

Compass

Algebra 36 or above: \_\_\_\_\_ or K math 22 or above \_\_\_\_\_

Reading 85 or above: \_\_\_\_\_

Writing 74 or above: \_\_\_\_\_

TABE

Reading 12.9 \_\_\_\_\_

Writing 12.9 \_\_\_\_\_

**PREFERENCE #2**

Preference #2      Yes or No

GPA 2.5 or > in 10 or more Credit Hours Rad Curriculum: \_\_\_\_\_

**PREFERENCE #3**

Preference #3      Yes or No

BIO 137 C or above \_\_\_\_\_

Repeat    yes or no

BIO 139 C or above \_\_\_\_\_

Repeat    yes or no

MAT 150 C or above \_\_\_\_\_

Repeat    yes or no

PHY 171/ 152 C or above \_\_\_\_\_

Repeat    yes or no



# **Curriculum**

## **Associate in Applied Science - Radiography**

The Radiography curriculum is organized around a clearly defined conceptual framework which combines general education and radiography education.

Elizabethtown Community and Technical College (ECTC) follows the curriculum approved for the community colleges in the Kentucky Community and Technical College System (KCTCS). Course descriptions may be found in the KCTCS catalog available in the Admissions Office, or online at <http://legacy.kctcs.edu/catalog/>. Students wishing to transfer into the program should make an appointment to see the coordinator of the program for transfer options. Students taking KCTCS classes with the intention of transferring should seek advice at the destination institution. Transportation to community agencies is the responsibility of each student.

### **Certification Eligibility Requirements**

Graduates of this program meet eligibility requirements to take the national certification examination in radiography administered by the American Registry of Radiologic Technologists (ARRT). Upon passing the competency examination students are certified as Registered Radiologic Technologists, R.T.(R) with all rights and privileges.

It should be noted that eligibility for the ARRT examination requires that the candidate be of good moral character. Conviction of a misdemeanor or felony may indicate a lack of a good moral character for ARRT purposes.

Pre-application review procedures allow individuals who are not yet enrolled in an educational program to determine if a conviction would interfere with exam eligibility. For more information go to [www.arrt.org](http://www.arrt.org) and visit the section under ETHICS to find further definitions and explanations.

Please note that following notification of conditional acceptance, you will be required to submit evidence of a physical examination, a criminal background check, and a drug screening. These are requirements of our clinical affiliates.

# Associate in Applied Science Radiography (Selective Admission)

Name _____	Empl. ID# _____	Date Entered _____	Date Grad. _____	
DEVELOPMENTAL COURSES AS NEEDED		Notes		
RDG 20		(COMPASS 0-69)		
RDG 30 <i>OR</i> RDG 41		(COMPASS 70-82) (COMPASS 83-84)		
ENC 90				
ENC 91		(COMPASS 39-73)		
MAT 55		(COMPASS alg <31, prealg 24-41 <i>OR</i> KMATH 0-5)		
MAT 65		(COMPASS alg <31, prealg 42-99 <i>OR</i> KMATH 6-17)		
MAT 85		(COMPASS alg 31-35 <i>OR</i> KMATH 18-21 <i>OR</i> KALG 7-13)		
CIT 90 (basic computer skills)		Does not fulfill digital literacy graduation requirement		
GENERAL EDUCATION COURSES	Credit	Res	Tr	Notes
MAT 150 College Algebra or higher Quantitative Reasoning course	3			
Heritage/Humanities	3			
Social and Behavioral Science	3			
AHS 115 Medical Terminology <i>OR</i> CLA 131 Medical Terminology from Greek and Latin <i>OR</i> AHS 120 Medical Terminology	3 (3) (1)			
BIO 137 Human Anatomy and Physiology I	4			
BIO 139 Human Anatomy and Physiology II	4			Prereq: BIO 137
ENG 101 Writing I	3			
PHY 152 Introductory Physics II <i>OR</i> PHY 171 Applied Physics	3 (4)			<b>Preferred</b>
<b>GENERAL EDUCATION COURSES SUBTOTAL:</b>	<b>26-27</b>			

**Prior to program admission, documentation of digital literacy, as defined by KCTCS, is required.**

TECHNICAL COURSES	Credit	Res	Tr	Notes
IMG 104 Introduction to Radiography	2			
IMG 106 Patient Care in Radiography	2			
IMG 108 Radiographic Procedures I	4			
IMG 109 Clinical Practice I	1			
IMG 114 Image Production and Acquisition	2			
IMG 116 Advanced Patient Care in Radiography	2			
IMG 118 Radiographic Procedures II	4			
IMG 119 Clinical Practice II	3			

IMG 209 Clinical Practice III	3		
IMG 214 Imaging Equipment	2		
IMG 216 Basic Computed Tomography	1		
IMG 219 Clinical Practice IV	6		
IMG 224 Radiation Protection and Biology	2		
IMG 226 Radiographic Pathology	1		
IMG 228 Radiography Seminar	2		
IMG 229 Clinical Practice V	6		
<b>TECHNICAL COURSES SUBTOTAL:</b>	<b>43</b>		

<b>RADIOGRAPHY DEGREE PROGRAM TOTAL:</b>	<b>69-70</b>		
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**CPR certification must be obtained prior to enrolling in IMG 104, IMG 106, and IMG 108. Certification must be kept current throughout the program.**

**Students must maintain a minimum cumulative GPA of 2.0 throughout the radiography program.**

For a list of KCTC general education classes in each category, go to <http://kctcs.edu/students/Programs%20and%20Catalog>> Academic Services section> pp. 75-79.  
Or [www.kctcs.edu](http://www.kctcs.edu)> students> programs and catalog> Academic Services section> pp. 75-79.

*Revised: May 2018*

## Frequently Asked Questions

### **How do students apply to the radiography program?**

All students wishing to be admitted to the Radiography program must be admitted to the college and attend a preadmission conference, where application to the Radiography program is completed.

### **Is there a waiting list?**

No! Each year students must apply and attend a pre-admission conference. Students are selected based on admission criteria.

### **What if I have completed all the pre-requisites except BIO 139 which I am in on March 1<sup>st</sup>? Can I still have a chance to get into the program?**

That is possible. We fill the class first with those who have completed all the pre-requisites. If we have empty spots left over after this then we rank students based on:

1. ACT composite/ Compass / TABE Scores
2. Radiography curriculum GPA
3. Pre-requisites to be completed

This answer is also true if you are in your last pre-requisite class no matter what it is.

## Sensitivity to Medical Equipment

(example: Latex)

Students will be responsible for notifying the ADA coordinator of any sensitivity to medical supplies or equipment, especially if symptoms of latex sensitivity develop. Students need to be aware that the college lab and all clinical facilities contain supplies/equipment made of latex that may pose a hazard to individuals with latex allergies. This also applies to students who have or develop sensitivity to other chemicals used in the manufacture of medical supplies and equipment.

Signs of latex allergy include, but are not limited to, the following:

- rash
- dry, itchy skin
- swelling of hands
- cracking, chapping, scaling or weeping of the skin
- hives
- swollen lips or mucous membranes
- difficulty breathing
- runny nose
- scratchy throat
- coughing or wheezing
- shock

**Increased exposure increases risk for developing latex sensitivity.**

### **MRI Safety:**

**Students will rotate through MRI. Students need to notify program officials regarding any body metal or prior work with metal that may have resulted in metal shavings entering the body.**

**Examples of devices that may be affected by MRI:**

- pacemaker
- implanted insulin pumps
- aneurysm clips
- vascular coils and filters
- heart valves
- ear implants
- surgical staples and wires
- shrapnel
- bone or joint replacements
- metal plates, rods, pins or screws
- contraceptive diaphragms or coils
- penile implants
- permanent dentures

## Grievance Mechanisms

Students who have a grievance are to discuss the problem with the radiography faculty member involved. If the problem is not resolved, the student is to bring the problem to the attention of the Radiography Program Director. If the student is still not satisfied with the results, he/she may go to the Division Chairperson and to the Academic Dean. The Kentucky Community and Technical College System Code of Student Conduct is followed on all matters in which a student feels his/her academic rights have been violated.

## ACCREDITATION

The Elizabethtown Community and Technical College Radiography Program is accredited by:

Joint Review Committee on Education in Radiologic Technology (JRCERT)

20 N. Wacker Drive, Suite 2850

Chicago, IL. 60606-3182

312-704-5300

[www.jrcert.org](http://www.jrcert.org)

[mail@jrcert.org](mailto:mail@jrcert.org)

Elizabethtown Community and Technical College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, telephone #404-679-4501) to award Associate Degrees.

Elizabethtown Community & Technical College does not discriminate on the basis of race, color, national origin, age, religion, marital status, sex or disability in employment, educational programs, or activities as set forth in Title IX, Title VI, and Section 504, and ADA.
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**Elizabethtown Community & Technical College  
Associate Degree Radiography Program  
PREADMISSION CONFERENCE SCHEDULE**

For Fall 2019	Sep. 21, 2018 11:00 a.m. OR Oct. 26, 2018 2:00 p.m.	Nov. 15, 2018 1:00 p.m. OR Dec. 6, 2018 10:00 a.m.	Jan. 24, 2019 3:00 p.m.	Feb. 8, 2019 11:00 a.m. OR Feb. 21, 2019 3:00 p.m.
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Conferences will be held in the Radiography Classroom (Room 302 RPC) all conferences are held on Eastern Standard Time and may last up to 2 hours.

**\*\* If ECTC is closed due to inclement weather the pre-admission conference will be cancelled.**

**FOR MORE INFORMATION REGARDING THE  
ASSOCIATE DEGREE RADIOGRAPHY PROGRAM,  
PLEASE CONTACT:**

**CARLA ALLEN  
ADMINISTRATIVE ASSISTANT  
[carlam.allen@kctcs.edu](mailto:carlam.allen@kctcs.edu)**

**(270) 706-8464 OR TOLL FREE 877-246-2322 EXT. 68464**

**OR**

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