

BOWLING GREEN TECHNICAL COLLEGE

RADIOGRAPHY PROGRAM

1845 Loop Drive, Bowling Green, KY 42101
(270) 901 -1000

PROGRAM DESCRIPTION

This program prepares the individual to become a radiographer. The radiographer is prepared to administer ionizing radiation for medical diagnostic imaging purposes. Emphasis is on radiation protection and quality patient care. The curriculum is comprised of specialized courses in radiography with concentrated study in the basic sciences, mathematics and general education.

Students enrolled in the radiography program must achieve a minimum grade of “C” in each Radiography course. Upon completion of the degree program, the graduate is eligible to apply to write the examination for registration as a radiographer by the American Registry of Radiologic Technologists. Radiographers may find positions in hospitals, health clinics, and physicians’ offices. Research laboratories and some industrial firms may also employ radiographers.

The radiography program at the Bowling Green Technical College offers an Associate in Applied Science Degree.

The program consists of instruction in specialized courses in radiography with concentrated study in the basic sciences and mathematics.

Classroom instruction is closely correlated with guided clinical practice in affiliated health care facilities. The program requires four consecutive semesters and one summer commitment with an average weekly involvement of 30 – 40 hours.

All applications and required application materials must be submitted to the admissions office by March 1. There are no exceptions.

The program enrolls a new class for the fall semester. Each class contains 21 students.

OCCUPATIONAL DESCRIPTION

The radiographer plays an important role on the medical team as a technical assistant to the radiologist, a physician who has specialized in the use of x-rays for diagnosis and treatment. A registered radiographer is qualified to work in hospitals, physician’s offices, clinics, public health projects, industrial medical clinics, veterans’ and military hospitals.

As a skilled radiographer, you would assist the radiologist in examining for broken bones, ulcers, tumors, diseases or malfunction of various organs. The radiographer adjusts x-ray equipment to the correct setting for specific examinations, puts the patient into the correct position, makes the required exposure, processes the radiograph and provides patient care.

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's responsibility may also include maintaining x-ray equipment in efficient operating condition except for major repairs, keeping records of patient's radiographs and reports, ordering supplies, and mixing processing solutions. In addition, the radiographer would be responsible for the mental and physical comfort of patients.

CLINICAL SITES

Some travel will be required to out-of-town clinical sites in order to provide the student with a well-rounded clinical experience. Students may not choose their clinical sites; rather the Clinical Coordinator makes all clinical assignments. Currently, clinical affiliates are: The Medical Center at Bowling Green, Greenview Regional Hospital, TJ Samson Community Hospital in Glasgow, Logan Memorial Hospital in Russellville, Western Kentucky Diagnostic Imaging Center in Bowling Green, Caverna Memorial Hospital in Horse Cave, Monroe County Medical Center in Tompkinsville, The Medical Center at Scottsville, and The Medical Center at Franklin. It is possible this list can change in the future.

Clinical rotations consist of day and evening assignments. Each student in the program is required to complete four rotations of evening assignments. A rotation consists of two calendar weeks.

ACCREDITATION AND CERTIFICATION

Bowling Green Technical College's radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

Graduates of this program meet eligibility requirements for taking the national certification examination in radiography administered by the American Registry of Radiologic Technologists (ARRT). Upon passing this 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 good moral character for ARRT purposes. Preapplication review procedures allow individuals who are not yet enrolled in an educational program to determine if a conviction would interfere with exam eligibility. You can obtain a preapplication by downloading from the American Registry of Radiologic Technologist website at: www.arrt.org or by requesting one from the program's faculty.

TECHNICAL STANDARDS FOR THE RADIOGRAPHY PROGRAM

Radiography involves the provision of direct care for individuals and is characterized by the application of verified knowledge in the skillful performance of radiological technical functions. Therefore, all applicants should possess:

1. sufficient visual acuity, such as is needed in the accurate preparation and administration of contrast media and for the observation necessary for patient assessment and nursing care;
2. 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 monitors, stethoscopes, intravenous infusion pumps, fire alarms, etc.;

3. 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;
4. sufficient motor skills (speech, reading, writing) to interact with individuals and to communicate their needs promptly and effectively, as may be necessary in the patient's / client's interest; and
5. sufficient intellectual and emotional functions to plan and implement care for individuals.

RADIOGRAPHY PROGRAM CURRICULUM

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

TECHNICAL COURSES: (Taken after admission to the program)

COURSE NAME

Introduction to Radiography
 Radiographic Procedures I
 Patient Care in Radiography
 Clinical Practice I
 Radiographic Procedures II
 Advanced Patient Care
 Image Production and Acquisition
 Clinical Practice II
 Clinical Practice III
 Basic Computed Tomography
 Imaging Equipment
 Clinical Practice IV
 Radiation Protection and Biology
 Radiographic Pathology
 Radiographic Seminar
 Clinical Practice V

GENERAL EDUCATION COURSES

ENG 101	Writing I	3
BIO 137	Human Anatomy and Physiology I	4
BIO 139	Human Anatomy and Physiology II	4
AHS 115	Medical Terminology OR	3
CLA 131	Medical Terminology from Greek and Latin	(3)
MA 150	College Algebra OR	3
MT 150	College Algebra and Functions	(3)
PHY152	Introduction to Physics OR	3
PH171	Applied Physics OR	(4)
PH172	Physics for Health Sciences	(2)
	Humanities Elective	3
	Oral Communication Course	3
	Computer Literacy	3
	Social Interaction Elective	3

GENERAL EDUCATION COURSE OPPORTUNITIES

General education courses required for the radiography program can be obtained by the student in a number of ways. Prior college coursework from other accredited institutions may be considered for transfer credit by the college's registrar. All of the general education courses are offered by the Bowling Green Technical College, consult the schedule bulletin for class times and days. Students may also take general education courses online through the Kentucky Virtual Campus. You can visit the website by going to www.kyvu.org. Students may also take the general education courses by attending any KCTCS Community College.

ADMISSIONS

** Prerequisites**

Applicants who have completed both semesters of Anatomy and Physiology (BIO 137 and BIO139) , the Applied Physics (PH171, PH172 or PHY152) requirement and College Algebra (MT 150) prior to the March 1 application date are given priority consideration for admission.

When the program has more applicants with the above prerequisites than total student capacity, admissions are handled using the Preference system outlined below.

CPR must be obtained prior to enrolling in RADI 100 and the certification must be kept current throughout the program. Program faculty recommend that an applicant wait until they are accepted into the program before obtaining certification in Adult, and Infant and Child CPR. It is the students responsibility to maintain the CPR certification through the length of the program.

Selection of students for the program will be made by the president of the college or the president's designee after considering the recommendation of the Admission Committee.

Membership of this committee shall be as follows:

- Radiography Program Coordinator
- Radiography Faculty Member
- Division Chairperson
- Admissions Officer
- Counselor

Each applicant must submit the following credentials by **March 1** in order to be considered by the committee:

1. Application for admission to the college.
2. Official transcripts of all postsecondary education or training.
3. American College Test (ACT) reports or Compass score reports.
4. Viewing Verification Form. This form documents that the applicant has viewed the online video or CD program orientation.

Preference may be given to:

1. Applicants with an ACT composite score of 20 or above, or Compass scores in Algebra of 48 or above, Reading of 81 or above, and Writing of 70 or above.
2. Applicants who have a cumulative GPA of 2.5 or better (4 point scale) in 10 hours or more of college credit applicable to the radiography program.
3. Applicants who have completed the biological and physical sciences and mathematics courses listed in the radiography curriculum with a "C" or better.

Compass Scores

Applicants may take the ACT Compass exam in the Assessment Center of the College. If the applicant would like to see some sample questions:

1. Go to www.act.org .
2. Click on the site map and find Compass test. Click on this.
3. You can find sample questions for all three sections of the Compass test that is required.

IMPORTANT NAMES AND NUMBERS

PROGRAM DIRECTOR:	Lori Slaughter, B.S., RT(R)(M) lori.slaughter@kctcs.edu	901 - 1081
CLINICAL COORDINATOR:	Josh Bradford B.S., RT(R) josh.bradford@kctcs.edu	901 - 1099
REGISTRAR:	Brooke Palmer	901 - 1001
DEAN OF STUDENT AFFAIRS:	Dr. Phil Neal	901 - 1114
ADMISSION ADVISORS:	Jamie Parke Denna White	901 - 1007 901 - 1094
FINANCIAL AID:	Rick Wilson Mike Hills	901 - 1004 901 - 11003
ASSESSMENT CENTER:	Evelyn Welch	901 - 1037 or 901 - 1034

TRANSFER OF COURSES

Previous course work obtained at an accredited college may be considered by the registrar for transfer. Please see the registrar for more information.

PROGRAM COSTS

Students enrolled in the program can expect expenses in the following areas:

Tuition	Radiation Film Badges
Textbooks	Background Screenings
Health Physical Screenings	Health Immunization
Uniforms	Transportation
Liability Insurance	

This is NOT a complete list of expenses.