



**REGION 6  
MARION, IN**

**Imaging Sciences Program**  
**RADIOLOGIC TECHNOLOGY**

**INFORMATION AND APPLICATION PACKET**  
2010-2011



Radiologic Technology  
School of Health Sciences

February 1, 2010

Dear Interested Candidate:

Thank you for your interest in the Radiology Technology Program at Ivy Tech Community College in Marion. Enclosed you will find the application steps, information about the program, the current suggested curriculum sequence, the application form, and frequently asked questions.

The Imaging Sciences Program includes AS degrees in Radiologic Technology, Sonography, Nuclear Medicine, or MRI. This packet is information about Radiologic Technology. Presently, only the Terre Haute campus offers programs other than radiology.

Radiology is truly an exciting field in healthcare and it is growing and it is changing every year. We want to help you with your goals to become a part of this healthcare team. Please carefully read through all the information supplied in this packet. This application packet is the most current and replaces any other previously printed application packet. If you have any questions, please (765) 651-3100 and ask to speak to the Imaging Sciences Program faculty. To make an appointment, call the same number and extension 3300.

Debbie Dillman, MSRS, RT(R)  
Program Chair  
Ivy Tech Community College  
765-651-3100 Ext: 3413

Tami Shepard, MSRS RT(R)  
Clinical Coordinator  
Ivy Tech Community College  
765-651-3100 Ext: 3406

# Radiologic Technology

**DEGREE AVAILABLE:**  
Associate of Science

**SALARY RANGE:**  
The mean salary for Indiana is \$42,786 according to the 2007 salary survey by the American Society of Radiologic Technologists (ASRT)

**ACCREDITATION:**  
Ivy Tech Community College is an accredited, equal opportunity, affirmative action institution of higher education and is accredited by the North Central Association of Colleges.

This Radiologic Technology Program is accredited by the Joint Committee on Education in Radiologic Technology (JRCERT – 20 N. Wacker Dr., Suite 2850, Chicago, IL. 60606-3182)

**ADDRESS:**  
261 S. Commerce Rd.  
Marion, IN  
46953

800-554-1159  
(765) 651-3100  
www.ivytech.edu

The radiologic technologist is someone who specializes in using x-rays to create images of the body, and is known as a radiographer. The radiographs that are produced by the radiographer enable the doctor to diagnose the patient for disease, fractures, or any irregularities. Therefore, radiographer must be a professional who is skilled in the art and science of radiography and is able to apply scientific knowledge, problem-solving techniques, and the use of high tech equipment, while providing quality patient care. Technologists are employed in hospitals, clinics, physicians and dentists' offices, federal and state agencies, industry, and certain education institutions.

This program includes a curriculum that includes patient care, radiographic technique, positioning, radiation exposure, radiation protection, physics, pathology, and ethics (complete list is in this packet). Clinical practice and supplemental instruction are provided at the accredited sites. Upon successful completion of this program, graduates are eligible to take the American Registry Examination given by the American Registry of Radiologic Technologists (ARRT).

This Radiologic Technology Program is a selective program with limited enrollment due to accreditation standards set by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Once accepted, it is a full-time program with the students rotating to the clinical sites and to the didactic instruction at Ivy Tech Community College.

For some health programs, you may not be eligible to be licensed or certified if you have been convicted of a felony. Please check with the Program Chair if you have questions concerning this before enrolling in the program or you may contact the American Registry of Radiologic Technologists (ARRT) <http://www.arrt.org>.

# **Radiologic Technology**

## ***MISSION AND GOALS***

### **RADIOLOGIC TECHNOLOGY PROGRAM MISSION STATEMENT**

The Mission of the Radiologic Technology Program at Ivy Tech Community College in Marion, Indiana, Region 6 is to give the student the essential tools and knowledge necessary for the graduate to deliver quality patient care and to produce diagnostic images of the highest quality for all patients while producing the lowest amount of radiation allowable. This education allows graduates to enter the profession with good communication skills and critical thinking.

### **PROGRAM GOALS**

With faith in both the faculty and the Advisory Committee, we set forth the following goals for the Radiologic Technology Program:

1. Students and graduates will be clinically competent.
2. Students and graduates will evaluate the importance of lifelong learning and professional development.
3. Students and graduate display problem-solving and critical thinking skills.
4. To graduate students with effective communication skills.

# Radiologic Technology

## *\*PHYSICAL DEMANDS AND REQUIREMENTS*

- **Standing** - Standing is required 95-100% of the time throughout the assigned clinical hours. Essentially, the position cannot be performed without the ability to stand for long periods of time.
- **Walking** - Walking is required 90-100% of the time during the course of the assigned clinical hours.
- **Climbing** - Climbing is not required except for stairs.
- **Pushing** - Pushing is required for moving the patients to and from the x-ray table
- **Pulling** - Pulling is required for both short and long duration's when moving patients onto tables and when transporting to and from units. X-ray apparatus including tubes and monitors may require significant physical exertion.
- **Lifting** – Up to 50 lbs. Most significant: must be able to assist patient to and from x-ray table
- **Carrying** - Students consistently carry film cassettes/magazines and other supplies. See lifting.
- **Exposure to Disease** - On a daily basis, involves caring for the patients with known and potential infections
- **Handling Repulsive Tasks** - Involves handling and disposing of body secretions, blood, stool, etc. The general cleaning and maintenance of an incontinent patient is not uncommon
- **Working in Confined Places** - Confined places included the processing darkroom, which is frequently used each day. Each time being 1-5 minutes in duration. Must be able to work around constantly running water
- **Exposure to Potentially Harmful Radiation** - Daily contact with radiation producing devices.
- **Visual** –20/100 vision, correctable (with glasses or contacts) to 20/30 in one eye or 20/100 vision correctable (with glasses or contacts) to 20/40 in both eyes
- **Auditory and Speech** – Student must be able to respond to auditory codes, phones, equipment noise and/or verbal expressions from patients and physicians for proper patient care. The student must be able to verbally communicate medical information to the patient, staff, physicians, and general public.

\* If you do not meet these requirements, check with the Disability representative at your campus for assistance.

Imaging Science Program  
**RADIOLOGIC TECHNOLOGY**  
 Prerequisites (shaded area) and Program Curriculum  
 Semester Sequence

GENERAL EDUCATION PREREQUISITES 1 <sup>ST</sup> SEMESTER	CREDITS	RADIOLOGY TECHNOLOGY CURRICULUM SUMMER SEMESTER	CREDITS
IVYT 101- Life	1		
APHY 101 – Anatomy & Physiology I	3	RADT 201 – Radiographic Positioning III & Lab	3
MATH 131 – Algebra-Trigonometry or MATH 136 – College Algebra	3	RADT 202 – Radiographic Clinical Education III	4
ENGL 111 – English Composition	3		
HLHS 101 – Medical Terminology	3		
<b>Total</b>	<b>13</b>	<b>Total</b>	<b>7</b>
GENERAL EDUCATION PREREQUISITES 2 <sup>ND</sup> SEMESTER	CREDITS	RADIOLOGY TECHNOLOGY CURRICULUM FALL SEMESTER 2	CREDITS
APHY 102 – Anatomy & Physiology II	3	RADT 221 – Pharmacology & Advanced Procedures	3
COMM 101 – Speech or COMM 102 – Interpersonal Communication	3	RADT 209 – Radiographic Positioning IV	3
CINS 101 – Introduction to Microcomputers	3	RADT 203 – Radiographic Clinical Education IV	4
PSYC 101 – General Psychology or SOC 111 – Principles of Sociology	3	RADT 218 – Imaging Production & Evaluation II	3
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>13</b>
RADIOLOGY TECHNOLOGY CURRICULUM FALL SEMESTER 1	CREDITS	RADIOLOGY TECHNOLOGY CURRICULUM SPRING SEMESTER 2	CREDITS
RADT 111 – Orientation and Patient Care	4	RADT 204 – Radiographic Clinical Education V	4
RADT 114 – Radiographic Clinical Education I	3	RADT 299 – General Examination Review	3
RADT 113 – Radiographic Positioning I & Lab	3	RADT 222 – Cross Sectional Anatomy	2
RADT 117 – Radiation Physics & Equipment Operation	3	<b>Total</b>	<b>9</b>
<b>Total</b>	<b>13</b>		
RADIOLOGY TECHNOLOGY CURRICULUM SPRING SEMESTER 1	CREDITS	RADIOLOGY TECHNOLOGY CURRICULUM SUMMER SEMESTER	CREDITS
RADT 115 – Radiographic Positioning II & Lab	3		
RADT 116 – Radiographic Clinical Education II	4		
RADT 112 – Image Production & Evaluation I	3		
RADT 206 – Radiobiology and Radiation Protection	3		
<b>Total</b>	<b>13</b>	<b>Total for the Program</b>	<b>80</b>

# **Radiologic Technology**

## ***APPLICATION AND SELECTION PROCESS***

### **If You Are Planning To Apply To The Radiologic Technology Program, PLEASE Read This Information Carefully**

The Radiologic Technology Program has a limited enrollment based on the standards set by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Applications to the program and/or completion of prerequisite courses do not guarantee admission into the technical portion of the program.

### **PRE- RADIOLOGY STEPS:**

Since the Radiology Technology Program is a selective program, it is important that you closely follow the application steps and the requirements that follow:

1. The following steps are required for new Ivy Tech Community College students:
  - Complete the application process for Ivy Tech Community College in the Admissions Office at any campus or on-line at [www.ivytech.edu/apply-now.html](http://www.ivytech.edu/apply-now.html).
  - Attend an "Admission Workshop" presented by Student Services.
  - Provide any previous college official transcript(s).
  - Complete the Compass Assessment test, if applicable.
  - Make an appointment with your campus Student Success Assistant to help you with this process and to help you interpret your Compass scores.
  - If necessary, complete any of the Academic Skills courses required from the results of your Compass test.
  - Complete IVYT 101 during your first semester at the College.
2. Once the student begins taking the General Education courses (see the list in this packet), the Radiologic Technology Program faculty becomes your college advisor.
  - The student should make an appointment during the first semester of prerequisites with a radiologic technology advisor to be sure that the student is taking the appropriate courses and in the correct sequence.
  - To make an appointment call 765-651-3300 and tell the receptionist you need to make an appointment. If you have already been assigned to Tami or me, you might be able to make appointments on-line at [www.r6ec.com](http://www.r6ec.com). Sign in with your Campus Connect user name and password and choose an appointment time.
3. Meet all of the physical requirements (see sheet in packet).
4. Complete the prerequisites by the due dates (see below).
5. Complete the TEAS - (Test of Essential Academic Skills) – by the last business day of January, 2011. (See below for details concerning the TEAS test).

### **RADIOLOGIC TECHNOLOGY APPLICATION REQUIREMENTS:**

1. Send the "Application" (use the form in this packet) for the Radiologic Technology Program to the Program Office (Marion campus).
  - Deadline is the last business day of January, 2011.

2. Submit an Ivy Tech Community College transcript to the Radiologic Technology Program at the Marion campus.
3. If you have previous college courses from other colleges/universities that have been officially approved as transfers by the registrar's office at Ivy Tech Community College, you will need to send a copy of the official transcript from those colleges/universities to the Radiologic Technology Program office at the Marion, IN. campus.
  - This means you will need to request 2 copies from the college/university; one copy will go to the campus where you initially registered and one copy will go to the Radiologic Technology Program in Marion.
4. Successfully complete the following four (4) prerequisite courses by the end of the Fall semester, December 2010. These are the courses that will be awarded points for GPA.
  - APHY 101 – Anatomy and Physiology I
  - ENGL 111 – English Composition
  - HLHS 101 – Medical Terminology
  - MATH 111 – Intermediate Algebra or MATH 131 or 136. If both 111 and the higher math are completed, then the highest GPA will be used.
5. Successfully complete all other prerequisites by June 1<sup>st</sup> of 2011. The GPA in these courses is not used in calculations for GPA and student selection. These courses are the following:
  - CINS 101 – Introduction to Microcomputers
  - PSYC 101 or SOCI 111 – Either Psychology or Sociology
  - COMM 101 or COMM 102 – Either Speech or Interpersonal Communication
  - AHPY 102 – Anatomy and Physiology II
  - MATH 136 – College Algebra or MATH 131 – Algebra-TrigonometryFailure to complete the prerequisites would mean that the student would forfeit his or her spot and the next student with the highest points will be offered admittance into the program.
6. Take the TEAS test by the application date, last business day of January, 2011.
  - The TEAS can be taken at any of the Ivy Tech Community College's campuses' Workforce and Assessment centers. Many have walk-in times for the test but check times and availability for the TEAS at the test center at your campus.
  - The TEAS maybe taken up to 3 (three) times in a two year period regardless of the testing location. Only the first three scores will be considered.
  - There must be 30 days between the test dates.
  - The student must pay the approved testing fee each time.
  - Exam scores will be valid for 2 (two) years from the date of the initial TEAS test.
  - The adjusted composite score from all four components will be used to determine points. The components are reading, math, science, and English.
  - It is recommended that you take the TEAS more than 30 days before the Application due date so you have time to repeat it if you want to attempt a higher score.
  - Submit scores with application.

## **Clinical Rotations**

Students will be required to rotate to different hospitals and clinics for the clinical portion of their education. Students will be assigned locations before each semester begins. Proximity to a clinical site does not guarantee rotation to that site. The currently approved clinical sites include the following:

Marion General Hospital and PMI outpatient imaging center – Marion, IN.

Veteran's Hospital – Marion, IN

Wabash County Hospital – Wabash, IN

Howard Regional Hospital – Kokomo, IN

Ball Memorial Hospital – Muncie, IN

Imaging Center of Muncie – Muncie, IN.

Blackford County Hospital – Hartford City, IN.

## **FAQ**

### **1. How many students do you accept every year?**

Presently it is 16.

### **2. How many applications do you receive?**

It varies from year to year but average is around 70.

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

No, we do not use a waiting list. If an applicant is not selected, then he or she must reapply the following year.

### **4. What is your deadline for the application?**

The deadline is the last business day of January.

### **5. When are students selected?**

The selection process will be no later than midterm of the Spring semester.

### **6. How will I know if I am accepted?**

Students will receive a letter from the Program Chair regarding acceptance or non-acceptance.

### **7. What are the prerequisites?**

See the curriculum sheet in this booklet.

### **8. Do I have to take the prerequisites in Marion?**

No, the prerequisites may be taken at any Ivy Tech campus.

### **9. What is the TEAS?**

The TEAS stands for Test of Essential Academic Skills which is a scholastic aptitude assessment test. This test covers four general areas; Math, Reading, English, and Science.

### **10. Where do I take the TEAS?**

See information about TEAS in the selection process of this packet. TEAS can be taken at the Workforce and Assessment Centers at most Ivy Tech campuses.

### **11. What do I need to score on the TEAS?**

We do not do our TEAS scoring like nursing. We use the “adjusted individual total score” found in the upper right-hand side of the results that are given from the test center. So for example, if the score was 82.5, then the points awarded to the student would be 8.25. Since 2009 was the first year we required the TEAS we do not have a lot of data. As of this writing, the average TEAS score for 2009-2010 application was 77.4. Remember this is the average, not necessarily the scores of those that were accepted into the program.

**12. How can I study for the TEAS?**

There is a Pre-Test manual for the TEAS test available in the Ivy Tech bookstore. For sample questions and testing tips go to [www.atitesting.com](http://www.atitesting.com).

**13. How are students selected?**

The selection process is decided by a point system. Points are awarded for the following:

- GPA of the following: APHY 101 – Anatomy and Physiology I, ENGL 111 – English Composition, HLHS 101 – Medical Terminology, MATH 111 – Intermediate Algebra or MATH 136 (if completed).
  - These must be completed by the end of December, 2010.
- Composite score of the TEAS test.

**14. Where are your clinical sites?**

Students will be required to rotate to different hospitals and clinics for the clinical portion of their education. Students will be assigned locations before each semester begins. Proximity to a clinical site does not guarantee rotation to that site.

**15. Can I take the prerequisite courses in the summer if I didn't get them done in the Spring semester?**

No, the last of the required general education courses must be completed by the end of the spring semester of the year you apply for selection. By signing the application the student states that he or she will successfully complete the remainder of the prerequisite courses before the end of the Spring semester of the year that the student applies to the program.

**16. What do I need to do if I am accepted?**

If you are accepted into the radiologic technology program, you will need to do the following:

- Attend the summer orientation.
- Submit a current physical by a medical doctor.
- Have a TB skin test and a Rubella Titer.
- Have a current CPR card.
- Hepatitis B surface antibody shot is recommended but is optional. Details will be sent prior to starting the program.
- Required to travel to the various clinical sites.

**17. What happens if I don't get accepted?**

If the student is not accepted into the radiologic technology program the student may...

- Reapply the following year and submit new transcripts and scores if repeated.
- Consult with your advisor for other programs that you may complete or be eligible to pursue.

- Discuss with the Radiologic Technology Program faculty on areas that need to be improved.
- Discuss with the Radiologic Technology Program faculty an alternate plan.

**18. Will I learn US, CT, or MRI in the Imaging Sciences Program?**

Not ultrasound or MRI but some basics of CT. The radiography program is to prepare students for radiology and x-rays. During the program, students will be introduced to other imaging modalities but will not learn how to do medical procedures. Presently, the Terre Haute campus does offer an AS degree in Sonography.

**19. What is the cost of the program?**

The program is 80 credits so multiply 80 x the present tuition for ITCC (you can go to [www.ivytech.edu](http://www.ivytech.edu) for current tuition). Other cost includes:

- 2 scrub outfits and shoes. These prices will vary depending on where you purchase these articles.
- There is also a cost for books and lab fees. This too will vary according to market value but I would estimate to be around \$1,200 -1,500.
- Dosimetry badges and service: \$25.00 per semester.
- Students will also travel to a variety of clinical sites so gasoline is another cost.

**20. Can I work and be in the program?**

You can but we don't recommend it. The regular hours of attending class and going to clinicals are about 32-34 hours a week and you still need study time on top of that.

**21. Can I take classes at night?**

Any of the prerequisites may be taken at anytime at any campus but once admitted into the program, most courses are daytime. Students are scheduled for some afternoon clinical rotations during their fourth and fifth semesters.

## Evaluation Grid (Example)

Name: Debbie Dillman

Student ID - C0012345678

**GPA Points for Courses:** For each letter grade received in the prerequisites courses, the student will receive points according to the following scales:

**APHY, MATH, HLHS**

A = 6 points  
 B = 4 points  
 C = 2 points  
 D = 0 points

**ENGL Courses**

A = 3 points  
 B = 2 points  
 C = 1 points  
 D = 0 point

Course Number and Name	GRADE	Points
APHY 101 – Anatomy & Physiology 1	A	6
ENGL 111 – English Composition 1	A	3
MATH 111 or MATH 136 (Highest score if both)	B	4
HLHS 101 – Medical Terminology	C	2
<b>TOTAL</b>		<b>15</b>

**Course Completion:**

Course Number and Name	SEMESTER COMPLETED	Pass
APHY 102 – Anatomy & Physiology 1	091	√
CINS 101 - Micromputers	093	√
COMM 1XX	093	√
MATH 136	093	√
PSYC 101 or SOCI 101	091	√
IVYT 1XX	091	√
<b>NUMBER SUCCESSFULLY COMPLETED</b>		<b>6</b>

**TEAS:**

Point totals are taken from the adjusted individual total score and a decimal point will be placed between numbers (example: 82% is equal to 8.2 points).

TEAS Test Area	PERCENTAGE RECEIVED	POINTS EARNED
Adjusted Individual Total Score	82.8	8.28
<b>TOTAL POINTS:</b>		<b>8.28</b>

**GPA = 15**  
**TEAS = 8.28**  
**Total = 23.28**



**APPLICATION TO THE RADIOLOGIC TECHNOLOGY PROGRAM**

Name \_\_\_\_\_  
(Last) (First) (Middle)

College ID # C0\_ \_ \_ \_ \_

Street Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Home Phone # \_\_\_\_\_

Daytime or cell phone number # \_\_\_\_\_

Ivy Tech Campus Connect E-Mail address \_\_\_\_\_

By signing this Application, I hereby acknowledge that I must complete all the required general education courses by June 1, 2011.

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

Submit the Application no later than **the last business day of January** to the campus in which you want to apply. See contact information below.

**Ivy Tech Community College of Indiana provides equal opportunity to all applicants. Applicants will be evaluated on merit not on basis of race, color, religion, creed, gender, national origin, disability, marital or veteran status, sexual orientation, or any other legally protected status.**

**OFFICIAL USE: Received on \_\_\_\_\_**

Central Indiana  
9301 E. 59<sup>th</sup> Street  
Indianapolis, IN 46216  
Ann Wilcox – Chair  
317-921-4438  
[asisel@ivytech.edu](mailto:asisel@ivytech.edu)

East Central  
261 S. Commerce Drive  
Marion, IN. 46953  
Debbie Dillman – Chair  
765-651-3100  
[ddillman@ivytech.edu](mailto:ddillman@ivytech.edu)

Wabash Valley  
8000 S. Education Drive  
Terre Haute, IN. 47802  
Lou Ann Wisbey – Chair  
812-298-2242  
[lwisbey@ivytech.edu](mailto:lwisbey@ivytech.edu)

### **Certification/Licensure Training Disclaimer**

Ivy Tech Community College cannot guarantee that any student will pass a certification or licensing exam. Your success will be determined by several factors beyond the instruction you are given in the classroom including your test-taking skills, your willingness to study outside of class, and your satisfactory completion of appropriate practice exams. Certification and licensure exam questions are drawn from databases of hundreds of possible questions; therefore, a thorough understanding of the subject matter is required. The goal of Ivy Tech in providing a certification/licensure exam studies class is to assist you in understanding the material sufficiently to provide a firm foundation for your studies as you prepare for the exam.