YAVAPAI COLLEGE
RADIOLOGIC TECHNOLOGY

Radiologic Technology AAS

Pre-Admission Workshop

YAVAPAI COLLEGE Be More

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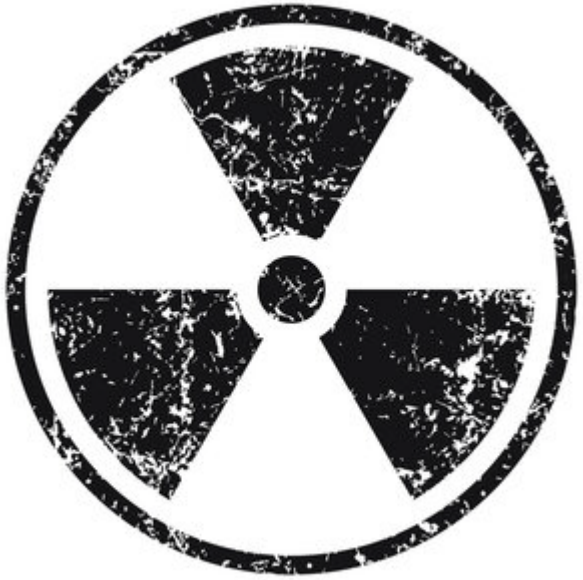
Director of Radiology

- Avery Liggett: Clinical Coordinator
- Emily Underwood: Faculty
- Dr. Bernard Sakowicz: Adjunct Faculty
- Monica Dzupinka: Adjunct Faculty-Lab
- Jenni Kreterfield: Adjunct Faculty-Lab
- Kimberly Harvey: Women's Health Imaging Certificate Adjunct Faculty
- JennyWalker: CT/MRI Program Adjunct Faculty

- **Autumn Butler: Instructional Support Specialist**

OBJECTIVES

- What is Radiologic Technology?
  - Places of employment
  - Required Skills
- About our program
  - Student Qualifications
  - Application Process
- Career Mobility
- Open Q & A Session



WHAT IS RADIOLOGIC TECHNOLOGY?

The art & science of using radiation to provide images of the bones, organs, soft tissue and vessels that comprise the human body

- Radiologic technologists make up the third-largest group of health care professionals—surpassed in number only by physicians and nurses.
- A primary responsibility of many technologists is to create images of patients' bodies using medical equipment. This helps doctors diagnose and treat diseases and injuries. Depending on your specialty, you might use X-ray, MRI, CT, fluoroscopy, or sonography equipment.
- In some cases, you may prepare and inject radiopharmaceutical agents into patients before creating the images.
- You could also help physicians perform procedures—such as angioplasty or stent insertion—to treat heart and blood vessel diseases without surgery. Or you might administer therapeutic doses of radiation to treat diseases such as cancer.

X-RAYS WERE DISCOVERED ON NOVEMBER 8, 1895

WHO ARE WE?

Radiographers, also known as radiologic technologists, diagnostic radiographers and medical radiation technologists are healthcare professionals who specialize in the imaging of human anatomy for the diagnosis and treatment of pathology.

A DAY IN THE LIFE…

- You'll promote safety and provide the highest level of patient care as you complete your daily work.

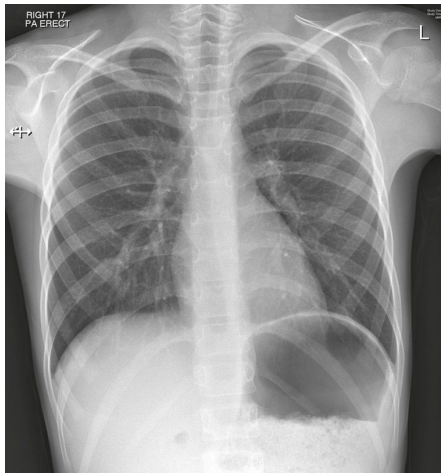
- You'll probably work in:
  - Hospital
  - Physician's office (orthopedic, pain management, arthritis clinic, chiropractor)
  - Outpatient care center (urgent care, outpatient imaging, surgical centers)

- Depending on the career you choose, you might see individual patients once or rarely (for example, if you take X-rays or mammograms). Or you might see them regularly (for example, if you administer radiation to cancer patients). In the first case, you'll welcome people you haven't met, quickly putting their concerns at ease. In the second, you'll get to know your patients, addressing their fears and sharing their medical milestones during the course of their treatment.

- No matter your specialty, you'll be an important part of a medical team. Your work will help uncover health problems and could ultimately save lives. You'll be active throughout your working hours, and no two days will be the same.

TYPES OF MEDICAL IMAGING PROGRAMS

- Radiography-Radiologic Technology
  - CT-Computed Tomography
  - MRI-Magnetic Resonance Imaging
  - Interventional Radiography
  - Mammography
  - Bone Densitometry
- Nuclear Medicine Technology
- Ultrasound (Sonography)
- Radiation Therapy
- Radiologist Assistant



ABOUT OUR PROGRAM

Our classroom and lab are located at the Prescott Valley Campus.

ABOUT OUR PROGRAM

We are an accredited program recognized by the
Joint Review Committee on Education in Radiologic Technology

JRCERT

Excellence in Education

COMPETENCY BASED PROGRAM

- **Two-year** program based on a combination of coursework (didactic) and clinical skills.

- Students are required to complete a specific number of competencies prior to graduation from the program as required by the ARRT.

Ensuring Gold Standard Patient Care Since 1922

ARIZONA DEPARTMENT OF HEALTH SERVICES

ABOUT OUR PROGRAM

Fall Term 1 *10 credit hours*	Hours
• AHS 130 Medical Terminology for Patient Care Staff	3
• ENG 101 College Composition I First Year Composition	3
• BIO 156 Human Biology for Allied Health **OR** BIO 181 General Biology I Physical and Biological Science	4
Term hours subtotal:	***10***

Spring Term 1 *10 credit hours*	Hours
• ENG 102 College Composition II First Year Composition	3
• MAT 152 College Algebra *(preferred)* **OR** any mathematics course for which MAT 152 is a prerequisite Mathematics	3
• BIO 201 Human Anatomy and Physiology I	4
Term hours subtotal:	***10***

Summer Term 1 *4 credit hours*	Hours
• BIO 202 Human Anatomy and Physiology II	4
Term hours subtotal:	***4***

ABOUT OUR PROGRAM

Fall Term 1 *13.5 credit hours*	Hours
• RAD 100 Introduction to Medical Imaging **Face to Face**	2
• RAD 111 Radiographic Positioning I **Face to Face**	3
• RAD 111L Radiographic Positioning Lab I **Face to Face**	2.5
• RAD 125 Radiographic Technique I **Face to Face**	2
• RAD 170 Radiology Patient Care and Pharmacology **Face to Face**	2
2nd 8 weeks	
• RAD 175 Radiation Biology and Protection **Face to Face**	2
Term hours subtotal:	***13.5***

ABOUT OUR PROGRAM

Spring Term 1 *13.5 credit hours*	Hours
• RAD 135 Radiation Physics and Equipment **Face to Face**	3
• RAD 141 Radiographic Positioning II **Face to Face**	3
• RAD 141L Radiographic Positioning Lab II **Face to Face**	2.5
• RAD 155 Radiographic Technique II **Face to Face**	2
• RAD 160A Radiology Clinical Education **Off-Site: Assigned Clinical Location**	3
Term hours subtotal:	***13.5***

Summer Term 1 *8 credit hours*	Hours
• RAD 160B Radiology Clinical Education **Off-Site: Assigned Clinical Location**	3
• RAD 185 Radiographic Image Analysis **Online**	2
• PHI 204 Medical Ethics General Education Co-Requisite Requirement	3
Term hours subtotal:	***8***

ABOUT OUR PROGRAM

Fall Term 2 *12 credit hours*	Hours
• RAD 200A Radiology Clinical Education **Off-Site: Assigned Clinical Location**	7
• PSY 245 Human Growth and Development General Education Co-Requisite Requirement	3
1st 8 weeks	
• RAD 215 Advanced Imaging Systems **Online**	2
Term hours subtotal:	***12***

Spring Term 2 *8 credit hours*	Hours
• RAD 200B Radiology Clinical Education **Off-Site: Assigned Clinical Location**	3
• RAD 255 Radiology Registry Prep and Professional Development **Face to Face**	3
1st 8 weeks	
• RAD 250 Radiographic Pathology **Face to Face**	2
Term hours subtotal:	***8***

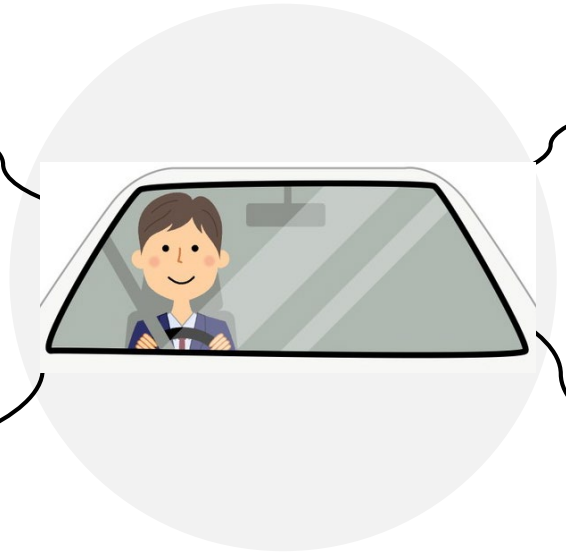
Clinical Attendance: Students must complete a minimum of 1,800 hours of clinical education as directed by Arizona state statute and the Arizona Department of Health Services. This requirement is considered necessary to complete the competencies needed for eligibility to challenge the American Registry of Radiologic Technologists examination. **Clinical site assignments vary and you may be subject to a commute in excess of 1.5 hours.**

Outside Employment: The program is demanding and requires the full-time commitment of the students. The program encourages students to consider that outside employment may interfere with the quality of academic performance. It is recommended that students discuss their situation with the program director before accepting outside employment. **It is also recommended that students work fewer than twenty (20) hours per week**

CLINICAL EDUCATION

Commuting
In excess of 1.5 hours

Schedule
- Mon-Fri
- 8-10 hour shifts
- Between 6am-11pm
- Total 1800 hrs



You're Responsible for:
- Gas
- Lodging
- Car Maintenance

Professionalism
- Appearance
- Behavior
- Conversation
- Attendance

CLINICAL EDUCATION AFFILIATES

Clinical Education Sites:

- Northern VA Medical Center
- SimonMed
  - Prescott Valley, Prescott
- Dignity Health YRMC
  - West Campus, East Campus, PMI, PVMI
- Northern Arizona Healthcare
  - VV Med Ctr., NAH Med. Imaging Ctr., Sedona Med. Ctr.
- Flagstaff Medical Center
  - NAH Medical Group-Orthopedic
- Flagstaff Bone & Joint
- Northern Arizona Radiology
- North Country Healthcare: Williams
- HonorHealth
  - Deer Valley

!!WARNING!!

Within every profession involving patient care you will be exposed to sick & injured members of the community.

- Bodily fluids
  - Blood, urine, vomit, sputum, feces
- Disease
- COVID-19
- Death
- Mental Illness
- Infection
- Abuse/Domestic Violence

STUDENT QUALIFICATIONS

National background check

Ethics review by ARRT if needed

- Felony
- Misdemeanor

Drug test-zero tolerance to include marijuana

Current Health Insurance (must maintain throughout program)

Immunizations (or proof of titers)

- Done at the expense of the student and requires upkeep during the program
- COVID-19 & Flu exemptions may be submitted to the college

STUDENT QUALIFICATIONS-PHYSICAL

Ability to lift and move patients safely

Reach above your head to move heavy equipment

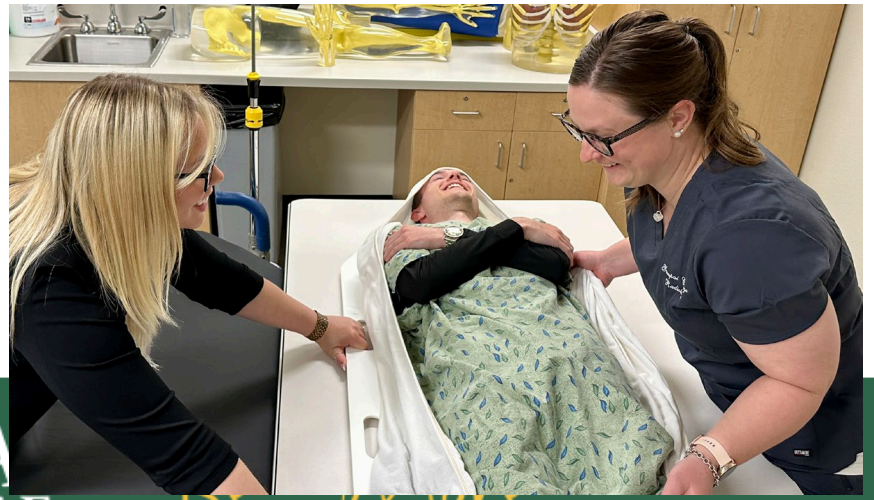
Ability to stand a significant amount of time while moving patients and equipment.

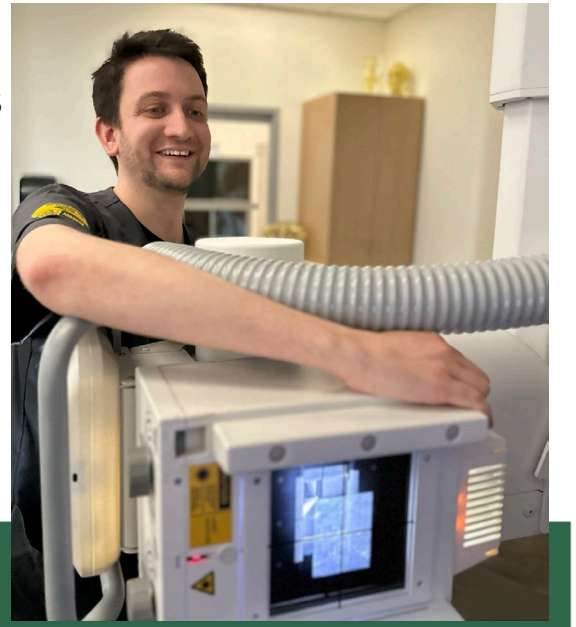
- Must wear protective lead apparel during patient care

  (at times)

Ability to see and hear clearly

- Please see technical standards in the application packet for more details





STUDENT QUALIFICATIONS-PERFORMANCE

- Effective oral & written communication skills
- Work effectively in a team setting
- Ability to work in a multi-cultural environment
- Use of critical-thinking skills
- Emotional stability & maturity
- Ability to work compassionately with patients and their families
- Organize & perform sequentially the individual steps necessary for an x-ray exam

GRADING SCALE

Upon successful completion and graduation from the Radiologic Technology Program, students are eligible to challenge the ARRT Exam.

Minimum passing score is 75%

- If you do not pass all your coursework with a **final grade of 75%** or higher you will not be able to move on to the next semester.
- You must reach the minimum required competencies every semester to be considered passing.

THE AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS®

You must have your ARRT in order to receive your state license.

RADIOLOGY PROGRAM SPECIFIC FEES

TOTAL INCLUDES TUITION FEES FOR PROGRAM CORE COURSES

Textbooks/Uniform Scrubs & Shoes

PlatinumPlanner (logging of clinical time and exams performed)

MyClinicalExchange (for the clinical sites to confirm your compliance)

CastleBranch (for the school to track all your documents, required to apply)

Passport Photos 2x2 image from CVS/Walgreens (for your hospital ID badges)

Vaccinations (upkeep required)

- COVID-19 vaccine or booster (not always required-declination form available for certain sites)
- Flu Vaccine (not always required-declination form available for certain sites)

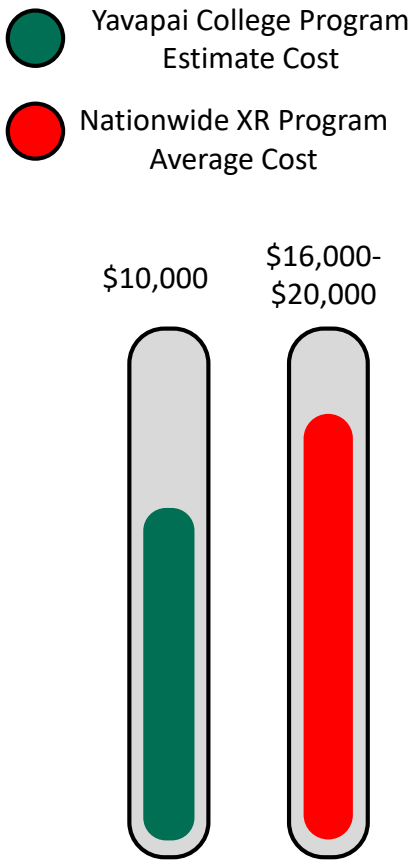
Annual TB skin test

CPR Certification (offered at YC as well as outside locations)

ACERT Conference (educational conference held in Vegas every Feb. for Radiology Programs nationwide)

- Fundraising to lower cost of trip to the student.

Replacement Markers (we provide you with 1st set of R & L Marker)



ARRT Exam Fee & State License Fee

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RADIOLOGY SCHOLARSHIPS

Community Healthcare Scholars (2 Rad students awarded once per year)

Dr. George S. Naifeh, Jr. Endowed Scholarship

Robert Altmanshofer Scholarship

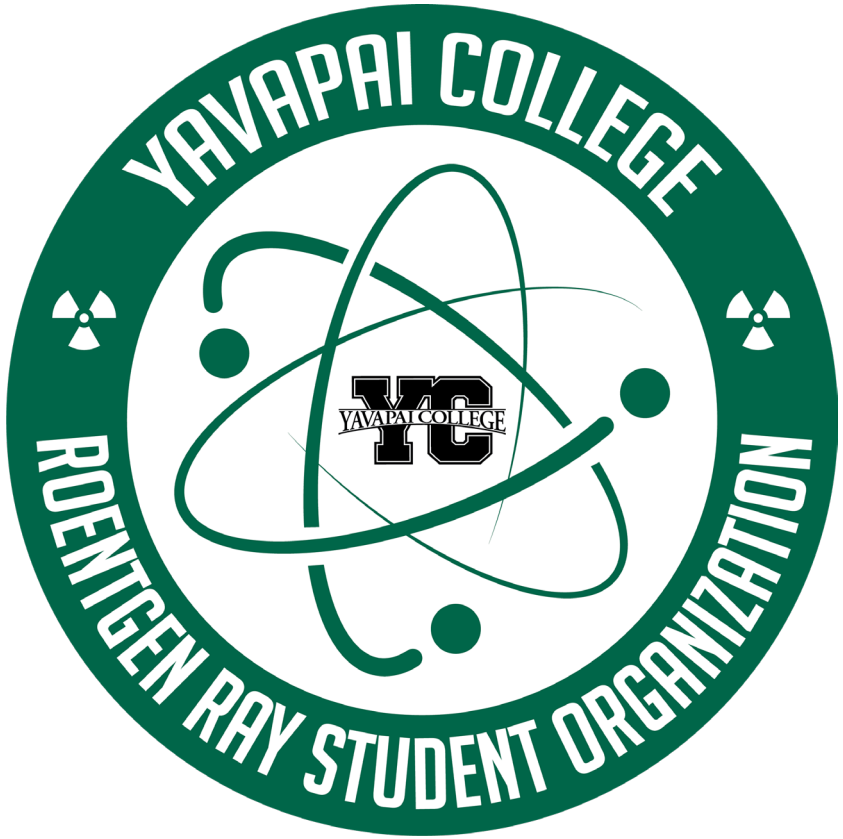
Lambda Nu National Honor Society Student Scholarship

Radiologic Technologist Student Emergency Fund

Alumni Scholarship for Continuing Education in honor of Marybeth Western, RT(R)

YAVAPAI COLLEGE PROMISE WORKFORCE

YC'S ROENTGEN RAY STUDENT ORGANIZATION



YC's Roentgen Ray Student Organization is a pre-professional organization committed to supporting and mentoring future radiologic technologists by providing opportunities in: Leadership, Professional Development, and Mentorship to current and future Rad Tech Students. Membership is open to pre-radiology and radiology students.

Contact: Tracy Rogers, (928) 717-7108

https://www.yc.edu/v6/campus-activities/clubs.html

ARIZONA ZETA CHAPTER OF LAMBDA NU
A NATIONAL HONOR SOCIETY FOR RADIOLOGIC SCIENCES

It's official! We are the Arizona Zeta Chapter of Lambda Nu a National Honor Society for Radiologic & Imaging Sciences! Look for your first invitation to join. You need to have a 3.2 or higher GPA. You'll be linked to make your $30.00 life-time membership payment.

Z

Arizona Zeta's name is derived from the upper-case Greek character **Z** which represents, in physics, the measurement of magnitude of the electrostatic charge (repulsion or attraction) between particles. This is symbolic of the sense of belonging our cohort class structure brings to the students, community and patients we serve. We build within the imaging community an attraction between technologist mentors and students as well as foster mentorship between current students and interested parties.

Arizona Zeta colors are royal blue to symbolize empathy and the long-standing traditional color of our student scrubs throughout the history of our program as well as gold, the ancient color of honor.

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ADMISSION CRITERIA

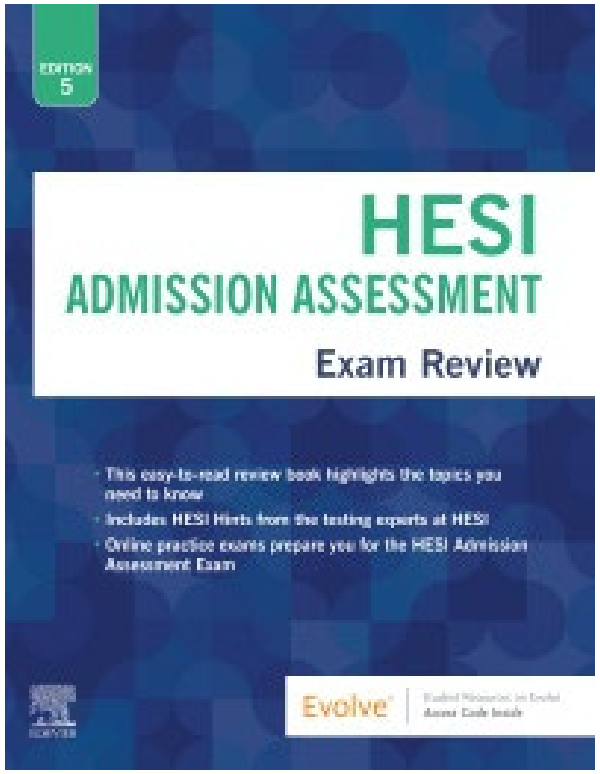
Selective Admissions Point System (based on a total of 1000 possible points)

Ranking Criteria	Criteria Points Values	Possible Points
Overall GPA – 2.0 or higher to apply	Cumulative GPA (pre-program entry courses) 2.0 or greater = _____ x 25 ***Example:*** 2.0 x 25 = 50 points	100
HESI A2 Entrance Exam *(Valid for 1 application cycle; can be taken twice to achieve a higher score.)* Cumulative Score 75% minimum is required for application submission	95-100% = 500 points 90-94.99% = 425 points 84-89.99% = 350 points 75-83.99% = 175 points ***Example:*** Cumulative Score of 85% = 350 points	500
Total Required Pre-Program Credits Completed	24 prerequisite credits = 100 points 4 points per credit hour completed + 4 additional points for all 24 credits complete at time of application	100
Residency	Yavapai County = 150 points State of Arizona = 50 points Outside state or county = 0 points	150
Current Yavapai College Student	Completed pre-program entry and program general education credits at Yavapai College 12 or more credits = 150 points 9-11 credits = 100 points 6-8 credits = 75 points 3-5 credits = 50 points	150

HESI A2 ENTRANCE EXAM

Review book available online averaging: $20-$40

ISBN: 9780323582261



Call & schedule at one of our test centers:
https://www.yc.edu/v6/testing-center/

Instructions on how to get started are on our website.

3 hour exam that you need to schedule and complete with a 75% or better prior to applying to the program.

Cost: $61.00

English:

- Reading comprehension
- Vocabulary
- Grammar

Math: Basic Math Skills

Science:

- Biology
- Anatomy & Physiology

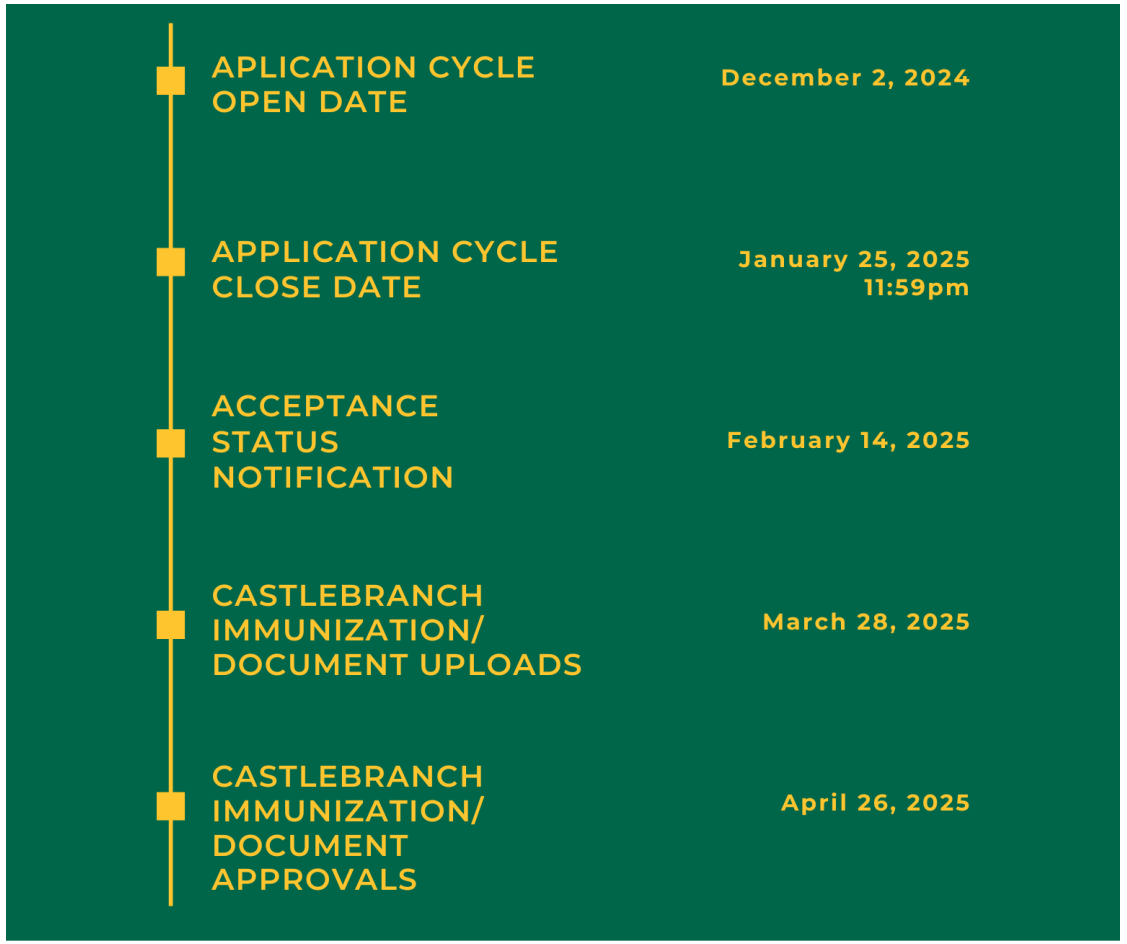
Critical Thinking Skills

- Problem Solving
- Biases & Ethical Dilemmas
- Argument Analysis
- Analysis of Data
- Prioritization of Care

APPLICATION PROCESS

- Link will be activated once the application cycle opens
- Follow each of the prompts
- A pdf file will be available to print and fill out the correct forms required for upload during the application process.

www.yc.edu/radiology



CAREER MOBILITY

Nationwide statistics from US Bureau of Labor Statistics

Quick Facts: Radiologic and MRI Technologists	
2021 Median Pay	$61,980 per year $29.80 per hour
Typical Entry-Level Education	Associate's degree
Work Experience in a Related Occupation	See How to Become One
On-the-job Training	None
Number of Jobs, 2021	264,000
Job Outlook, 2021-31	6% (As fast as average)
Employment Change, 2021-31	17,000

https://www.bls.gov/ooh/healthcare/radiologic-technologists.htm

CAREER MOBILITY

Travel Technologist Jobs have become much more popular and offer amazing salaries with additional benefits.

CAREER MOBILITY

100% of our job-seeking graduates are hired within 12 mo's of graduation. The majority of our students stay local to this area. There are PLENTY of employment opportunities locally.

ADDITIONAL OPPORTUNITIES WITH YC AFTER GRADUATION

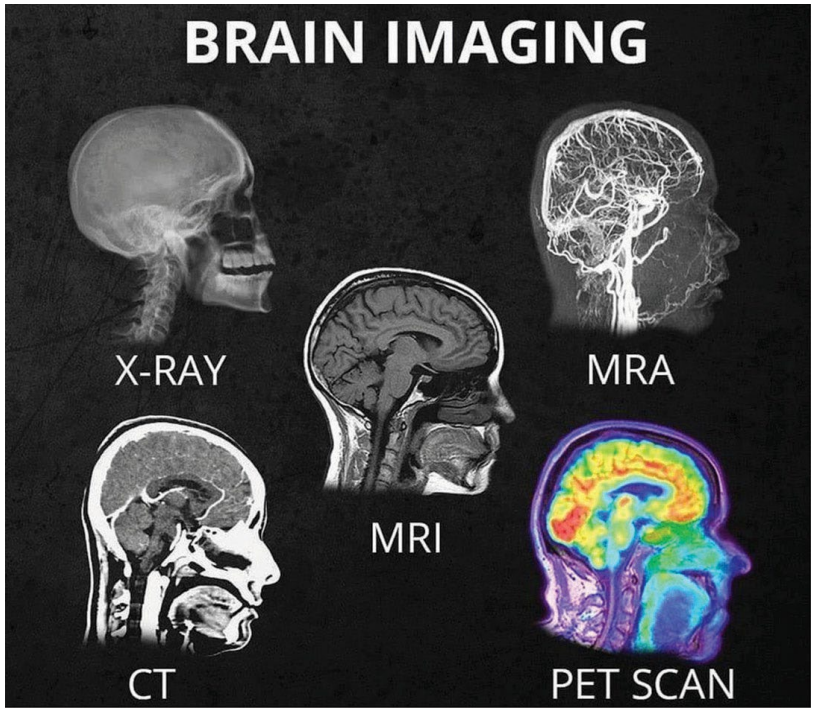
We offer CT, MRI, Women's Health Imaging, and Bone Densitometry Certificates for any technologist in good standing with the ARRT wanting a post-primary certification.

This will include our graduates after they pass their ARRT exam and receive a state CRT license.

Fall, Spring and Summer Semesters Available for CT and Mammography (Women's Health Imaging)

Fall and Spring Semesters Available for MRI

This is what the Alumni Scholarship is designed to help you accomplish



THANK YOU!

Click on the class verification link on the YC.edu/radiology page & answer all of the questions.

- This will generate a certificate of completion that will be sent to your email. You must include the certificate of completion with your Radiologic Technology program application.

Make sure to include your Name, Email, & Phone Number

If you have additional questions please email:
autumn.butler@yc.edu