

School of Diagnostic Imaging

Information Session

Gloria Albrecht, MS, RT(R)

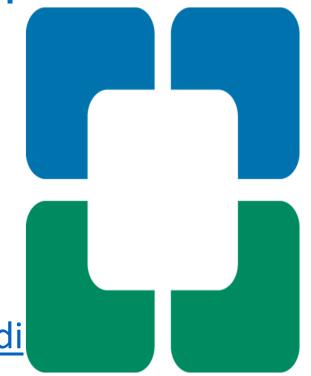
**Program Director** 

216-618-5250

galbrech@ccf.org

Website:

https://portals.clevelandclinic.org/sdi



# Program Shadowing/Observation

- We encourage all prospective students to participate in a clinical observation at the Cleveland Clinic
- This ensures that students have a full understanding of the career they are seeking
- You can schedule an observation by contacting Jennifer Rennick at 216-445-9972 or <a href="mailto:rennicj@ccf.org">rennicj@ccf.org</a>
- \*\*Scheduling of onboarding will be suspended from mid-December to mid-February

# Radiologic Technology Program



# Radiologic Technology Certificate & Degree Program

- Graduate with a Certificate in Radiologic Technology
- Eligible to take the ARRT National Registry Exam
- Degree completion programs:

Cuyahoga Community College Associate of Applied Science in Radiologic Technology

Kent State University - Ashtabula Campus Associate of Applied Science in Radiologic Technology

Lorain County Community College Associate of Applied Science in Radiologic Technology

Lakeland Community College
Associate of Applied Technical Studies - Radiography

# Radiologic Technology Certificate & Degree Program

- For ARRT certification in Radiography
  - Associate degree or higher college degree required
  - Does <u>not</u> need to be in the radiologic sciences
  - Can be earned before starting the program or during the program, before graduation
- College prerequisites for applicants:
  - Anatomy & Physiology I & II
  - Medical Terminology

### **Associate Degree Completion**

- Cleveland Clinic Program courses will transfer as college credit and apply toward the degree.
- Students will develop a plan to complete the general education requirements and any other degree requirements from the college.
- Cleveland Clinic Radiology Program courses transfer as a block credit toward the degree, not as individual classes/credit.
- Upon completion of both the CC radiography program courses and the college degree requirement courses, the graduate will earn both a:
  - Certificate in Radiology Technology from the Cleveland Clinic
  - Associate of Applied Science Degree or Associate of Technical Studies Degree.
- This will permit the graduate to take the ARRT Registry Examination.

### Admission Requirements

- All pre-requisites must have a grade of "C" or better
- All must be college credit courses

#### Anatomy & Physiology I & II

- If you have completed A & P I and are registered for A & P II for the Spring Semester, you may still apply to the program and be interviewed
- Must pass the Anatomy & Physiology II in the Spring Semester to be eligible for acceptance
- OR A & P for Diagnostic Medical Imaging BIO 1221 from CCC – applicable only for Tri-C degree completion
- Medical Terminology
- Minimum accumulative GPA 2.75

## Admission Requirements

- Radiography Program Application Form
  - \$20 non-refundable fee
- Official high school and college transcripts
- Behavior based interview
  - Assess communication and critical thinking skills
- Deadline for pre-requisite completion & application submission
  - February 1st
  - Or until the program is full
- Career Information <u>www.asrt.org</u>

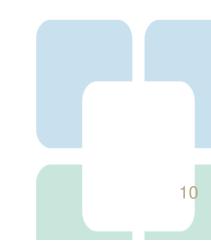


### Competitive/Selective Acceptance

- Acceptance is a point system based on:
  - Average score on the behavior based interview
  - High school and college GPA
  - Prerequisite course GPA
  - Number of science and math classes with a grade of "C" or better
    - The higher the grade, the more points awarded
- 18 to 21 students accepted each year
- Radiography program starts each year in August

# Cuyahoga Community College Degree Completion Courses

- BIO 1221 Anatomy and Physiology for Medical Imaging
  - or BIO 2331 and 2341 Anatomy and Physiology I and II
- MA 1020 Medical Terminology I
- MATH 1240 Contemporary Math
- PSY 1010 General Psychology
  - or PSY 101H Honors Psychology
- ENG 1010 College Composition I
  - or ENG 101H Honors English
- ENG 1020 College Composition II
  - Green = program prerequisites
  - Black = degree completion courses
  - 20 credit hours residency requirement



# Lorain County Community College Degree Completion Courses

- BIOG 121 Anatomy and Physiology I
- BIOG 122 Anatomy and Physiology II
- AHLN 110 Medical Terminology
- MTHM 158 Quantitative Reasoning or,
- MTHM 168 Statistics
- ENGL 161 College Composition I
- ENGL 162 College Composition II
- BIOG 123 Cross-Sectional Anatomy
- SOCY 151 Introduction to Sociology
  - Green = program prerequisites
  - Black = degree completion courses
  - 20 credit hours residency requirement



# Kent State University – Ashtabula Campus Degree Completion Courses

- BSCI 11010 Anatomy & Physiology for Allied Health I
- BSCI 11020 Anatomy & Physiology for Allied Health II
- HED 14020 Medical Terminology
- MATH 11009 Modeling Algebra
  - or MATH 11010 Algebra for Calculus
- ENG 11011 College Writing I
- PSYC 11762 General Psychology
- CHEM 10050 Fundamentals of Chemistry
  - or CHEM 10055 Molecules of Life
  - Green = program prerequisites
  - Black = degree completion courses
  - 15 credit hours residency requirement

# Lakeland Community College Degree Completion Courses

- 2210 Anatomy and Physiology I **BIOL**
- 2220 Anatomy and Physiology II **BIOL**
- HLTH 1215 Medical Terminology
- **MATH** 1330 Statistics for Health Sciences Mathematics
  - or 3 credit hour college level mathematics
- ENGL 1110 English Composition I(A) or,
- 1111 English Composition I(B) **ENGL**
- 3 credits each from two of the following categories:
  - Arts & Humanities; Social & Behavioral Sciences; Natural Sciences
- Additional 3 credits math <u>or</u> one of the categories above <u>or</u> English 1120 or Effective Interpersonal Communication 1100
- Additional 14 credits from categories above and/or other general studies courses and/or basic/related/foundational courses

#### Students must meet with a counselor to confirm degree requirements

- Green = program prerequisites
   Black = degree completion courses
   20 credit hours residency requirement

# Cleveland Clinic Technical Skill Requirements

- High school diploma or GED
- Computer skills
- Good eyesight either naturally or through correction
- Ability to hear instructions and respond to verbal requests
- Lift a minimum of 30 pounds, support up to 175 pounds
- Be able to move around and stand for long periods of time
- Good verbal and nonverbal communication skills
- Good communication and critical thinking skills
- Ability to see printed words in a textbook
- Ability to read and accurately interpret numbers on a chart

### **Tuition & Fees**

- Program Tuition & Fees \$16,080
- Nonrefundable Application Fee \$20
- Acceptance fee/tuition deposit \$300
  - Non-refundable
  - Applicable toward first semester tuition
- Textbooks approximately \$1,000
- Tuition and fees are subject to change
- 5 semester payments

### Financial Aid

- Federal financial aid available
- Complete a Free Application for Federal Student Aid, (FAFSA) online at www.fafsa.gov
- The FAFSA school code is 015252

### Financial Aid

- The School of Diagnostic Imaging also participates in the Post 911 GI Bill©. Please contact the United States Department of Veteran Affairs for current information.
  - Information can also be found online at <u>www.us-gibillschools.com</u>
- We also participate in the Workforce Institute, a county approved Local Training Provider.

### Curriculum

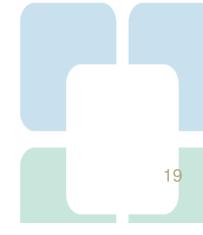
- Radiographic Positioning & Procedures I & II
- Advanced Radiographic Procedures
- Radiographic Positioning Lab I & II
- Radiographic Technique
   I & II
- Principles of Radiation Physics
- Patient Care in Radiography
- Radiographic Pathology

- Healthcare Ethics & Law
- Special Procedures
- Radiation Biology & Protection
- Cross-Sectional Anatomy
- Radiographic Analysis
- Registry Review I & II
- Clinical Experience



### Clinical Experience

- Competency based clinical education
- Rotate to two hospitals and at least one outpatient center
- Hospitals
  - Akron General Hospital
  - Cleveland Clinic Foundation/Main Campus
  - Euclid Hospital
  - Fairview Hospital
  - Hillcrest Hospital
  - Lutheran Hospital
  - Medina Hospital
  - South Pointe Hospital



### Clinical Experience

- Family Health Centers 2 week rotations
  - Beachwood
  - Brunswick
  - Lakewood
  - Middleburg
  - Strongsville
  - Twinsburg
  - Willoughby Hills
  - Mentor Hospital
- Akron Health & Wellness Centers 2 week rotations
  - Bath
  - Stow

- Clinical assignments chosen by lottery
- Monday through Friday
  - 8:00 AM 3:30 PM
- Except for a 2-week evening rotation
  - 3:30 PM 11:00 PM
- Academic classes weekdays
  - 8:00 AM 3:30 PM
- Basic Life Support (CPR) for Healthcare Providers by the American Heart Association required

### Program Calendar

- 5 semesters 21 months
- Start in late August each year
- Fall & Spring 16 weeks
  - Mid-semester break week (1)
- Summer 12 weeks (no mid-semester break)
- Between each semester 2 break weeks
- Time off each semester 3 days

### First Year

#### Semester 1, Fall 1 – 1<sup>st</sup> 8 Weeks

Monday Off

Tuesday Class

Wednesday Lab or Off

Thursday Class

Friday Lab Or Off

#### Semester 1, Fall 1 – 2<sup>nd</sup> 8 Weeks

Monday Clinical

Tuesday Class

Wednesday Lab or Clinical

Thursday Class

Friday Lab or Clinical

#### Semester 2, Spring 1

Monday Clinical

Tuesday Class

Wednesday Lab or Clinical

Thursday Clinical

Friday Lab or Clinical

#### Semester 3, Summer 1

Monday Clinical

Tuesday Class

Wednesday Clinical

Thursday Clinical

Friday Clinical

### Second Year

#### Semester 4, Fall 2

- Monday Clinical
- Tuesday Clinical
- Wednesday Class
- Thursday Clinical
- Friday Clinical

### Semester 5, Spring 2

- Monday Clinical
- Tuesday Clinical
- Wednesday Clinical
- Thursday Class
- Friday Clinical



# Registry Exam Pass Rate Program Effectiveness Data

- Graduates are eligible to take the national registry exam by the American Registry of Radiologic Technologists (ARRT)
- 83.3% average first time pass rate for the past five (5) years by the ARRT – Benchmark 75%
- Most graduates pass the registry exam on the first attempt
- 5-year average job placement within 12 months of graduation is 100%
- 2023 Program Completion Rate 100%
- 18 of 18 graduates

# RT Program Accreditation

- Accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT)
- Maximum accreditation
  - 8 years
- JRCERT can be contacted at:
  - 20 N. Wacker Drive

**Suite 2850** 

Chicago, IL 60606-3182

Phone: (312) 704-5300

E-mail: mail@jrcert.org

### Ohio State Board of Career Colleges and Schools

- Monitors and regulates Ohio's private postsecondary career colleges and schools to ensure compliance with minimum standards set by Ohio Revised Code Chapter 3332.
- Center for Health Sciences Education (Cleveland)
- School Registration # 2165
  - Diagnostic Medical Sonography (DMS)
  - Post Primary Computed Tomography (CT)
  - Post Primary Magnetic Resonance Imaging (MRI)
  - Primary Magnetic Resonance Imaging (MRI)
  - Radiologic Technology (RT)

### Ohio Department of Health Radiologic Licensure

- The Radiologic Licensure program ensures standards of knowledge and skill for operators who apply radiation to humans for diagnostic or therapeutic purposes.
- The program has licensed more than 17,000 operators, 110 educational facilities, and 180 continuing educational courses.
  - Mailing Address:
     Ohio Department of Health Radiologic Licensure
     246 North High Street
     Columbus, OH 43215
  - Telephone: (614) 752-2370 Fax: (614) 564-2460

E-mail: Xray.Licensure@odh.ohio.gov



# Post Primary CT/MRI Programs



# Post Primary CT/MRI Programs

- Computed Tomography Program
- Magnetic Resonance Imaging Program
- Start in August each year
- Day and evening courses available
- Curriculum
  - Introduction to CT or MRI online
  - Cross-Sectional Anatomy & Pathology
  - CT Physics traditional classroom or online
  - MRI Physics traditional classroom or online
  - Clinical Experience
    - Competency based minimum 300 hours

### Admission Requirements

- Must be a registered technologist in radiography, nuclear medicine, radiation therapy, or ultrasound
- Or a student in the final year of one of the aforementioned programs
- Technologists required to provide a copy of ARRT or equivalent license
- Students without ARRT or equivalent registration must provide school transcripts and receive approval from CT/MRI program coordinator

### Post Primary CT/MRI Programs

- Fall Semester
  - Introduction to CT or MRI
  - Cross-Sectional Anatomy & Pathology
- Spring Semester
  - CT or MRI Clinical
  - CT or MRI Physics



### Post Primary CT/MRI Programs Tuition

<ul><li>Application Fee (non-refundable)</li><li>Onboarding Fee:</li></ul>	\$20 \$30
<ul> <li>Acceptance fee/tuition deposit (non-refundable)</li> <li>Applicable toward first semester tuition</li> </ul>	\$100
<ul> <li>Individual Courses</li> <li>Introduction to CT or MRI Online</li> <li>Cross Sectional Anatomy and Pathology</li> <li>CT or MRI Physics</li> <li>CT or MRI Physics Online</li> </ul>	\$450 \$675 \$675 \$725
<ul> <li>Clinical</li> <li>CT Clinical Course:</li> <li>MRI Clinical Course:</li> </ul>	\$1,400 \$1,400
<ul> <li>Total Program Cost - Tuition &amp; Fees:</li> <li>Traditional classroom courses</li> <li>Online courses</li> </ul>	\$3,330 \$3,430
CT or MRI Program textbook estimated cost	\$300

### Post Primary CT/MRI Clinical Sites

- Cleveland Clinic Main Campus, Cleveland
- Cleveland Clinic Imaging Center, Wooster
- Cleveland Clinic Family Health Center, Beachwood
- Cleveland Clinic Family Health Center, Brunswick
- Cleveland Clinic Family Health Center, Lorain
- Cleveland Clinic Family Health Center, Strongsville
- Cleveland Clinic Family Health Center, Twinsburg
- Cleveland Clinic Family Health Center, Avon
- Akron General Medical Center, Akron

- Cleveland Clinic Family Health Center Willoughby
- Hillcrest Hospital, Mayfield Heights
- Euclid Hospital, Euclid
- South Pointe Hospital, Warrensville Heights
- Lutheran Hospital, Cleveland
- Marymount Hospital, Garfield Heights
- Fairview Hospital, Cleveland
- Ashtabula County Medical Center, Ashtabula
- Medina Hospital, Cleveland Clinic
- Cleveland Clinic Star Imaging, Boardman, Dayton, Niles, Columbus
- Union Hospital, Cleveland Clinic

# Primary MRI Program New for 2023



# Primary MRI Admission Requirements

- Minimum of associate degree
  - Does not need to be in radiologic sciences
- Pre-requisite courses
  - Medical Terminology
  - Anatomy & Physiology I & II
    - Must have a grade of "C" or better
    - Must be college credit courses
- Minimum accumulative GPA 2.75

## Primary MRI Admission Requirements

- Primary MRI Program Application Form
  - \$20 fee (non-refundable)
- High school and college transcripts
- Behavior based interview
  - Assess communication and critical thinking skills
- Deadline to submit requirements
  - February 1st
  - Or until the program is full
- Career Information www.asrt.org

## Primary MRI Program

- Selective process to determine accepted students
  - Point system which includes:
    - Behavior based interview
    - High school and college GPA
    - Number of additional science and math classes with a grade of "C" or better
      - The higher the grade on the science and math courses, the more points awarded

#### Primary MRI Duration and Tuition

- Program duration
  - 16 months / 4 semesters
- Cost of tuition
  - \$12,000 / program
  - Can be paid per semester (\$3,000/semester)
- Additional expenses
  - Simulation software
  - Textbooks
  - Uniforms
- Accreditation in progress with first cohort

#### Primary MRI Course Schedule

- Full-time didactic and clinical program
  - Monday through Friday
  - 8 am 3:30 pm
  - Days off each semester 3
- First fall semester
  - Class two days per week
  - Clinicals three days per week
- Spring, summer, second fall semester
  - Class one day each week
  - Clinicals four days per week



### Primary MRI Course Schedule

- Fall semester
  - Cross Sectional Anatomy
  - Procedures I
  - Patient Care
  - Scanning lab & clinicals
- Spring semester
  - Procedures II
  - Physics I
  - Clinicals

- Summer semester
  - Ethics
  - Physics II
  - MRI Pathology
  - Clinicals
  - Study lab
- Fall semester
  - Advanced Imaging
  - Registry Review
  - Study lab

### Primary MRI Clinical Sites

- Akron General Hospital & Health and Wellness Centers
- Cleveland Clinic Main Campus
- Cleveland Clinic Family Health Centers
- Euclid Hospital
- Fairview Hospital
- Hillcrest Hospital
- Lutheran Hospital
- Marymount Hospital
- Medina Hospital
- South Pointe Hospital



Diagnostic Medical Sonography Program



- Began Fall of 2022
  - Accreditation in process
- Students will graduate with a certificate in Diagnostic Medical Sonography
- Application requirements:
  - High school diploma or have earned a certificate of equivalent education recognized by the U.S.
     Department of Education
  - Accumulative GPA of 2.75 or higher

- Applicants must have completed the following college credit pre-requisites with a grade of "C" or better:
  - Medical Terminology
  - Anatomy & Physiology I & II
    - Completed within the last five (5) years
  - Please note: If you have completed Anatomy & Physiology I and are registered for Anatomy & Physiology II for the current semester for which you are applying, you may still apply to the program to be interviewed, but you must then complete the Anatomy & Physiology II successfully with a grade of "C" or better in that semester to be eligible for acceptance into the program.
  - Math (program manager approval)
  - Physics (program manager approval)
  - Communications (program manager approval)

#### **Cuyahoga County Community College**

- BIO-2331 Anatomy and Physiology I
- BIO-2341 Anatomy and Physiology II
- <u>DMS-1071</u> Concepts of Physics in Diagnostic Sonography
- MATH-1410 Elementary Probability and
  Statistics
- ENG-1010 College Composition I
- MA-1010 Introduction to Medical Terminology

#### **Lorain County Community College**

- ALHN 112 INTRODUCTION TO MEDICAL TERMINOLOGY
- BIOG 121 ANATOMY AND PHYSIOLOGY I
- BIOG 122 ANATOMY AND PHYSIOLOGY II
- ENGL 161 COLLEGE COMPOSITION I
- MTHM 168 STATISTICS
- PHYC 115 PHYSICS FOR THE ALLIED HEALTH SCIENCES

#### **Lakeland Community College**

- HLTH 1215 MEDICAL TERMINOLOGY FOR HEALTH PROFESSIONALS
- BIOL 2210 ANATOMY AND PHYSIOLOGY I
- BIOL 2220 ANATOMY AND PHYSIOLOGY II
- ENGL 1100/1111 ENGLISH COMPOSITION I
- MTHM 1330 STATISTICS FOR THE HEALTH SCIENCES
- PHYS 1440 PHYSICS/ALLIED HLTH

#### **Kent State University**

- HED 14020 MEDICAL TERMINOLOGY
- BSCI 21010 ANATOMY AND PHYSIOLOGY I
- BSCI 21020 ANATOMY AND PHYSIOLOGY II
- ENG 11011 COLLEGE WRITING I
- MATH 11009 MODELING ALGEBRA
- PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES

#### **DMS Application Process**

- Program Application Form
  - \$20 non-refundable fee
    - Check only, no money order
    - To pay with a credit card, call 216-618-5250
  - Official high school and college transcripts
- Please visit the following professional organization websites for detailed information, videos, and resources regarding the profession of sonography
  - www.ardms.org
  - www.sdms.org

- Selective process to determine which students will be accepted into the program
  - Point system which includes scores from:
    - Behavior based interview
    - High school and college GPA
    - Number of additional science and math classes with a grade of "C" or better
      - The higher the grade on the science and math courses, the more points awarded

- Program duration
  - 21 months / 5 semesters
- Cost of tuition
  - \$15,000 / program
  - Can be paid per semester (\$3,000/semester)



- Course Schedule
  - Fall Semester (1st year)
    - Introduction to DMS, Patient Care, Cross-Sectional Anatomy, scanning labs, clinical 2 days/week
  - Spring Semester (1st year)
    - Core coursework begins, scanning labs, clinical 2-3 days/week
  - Summer Semester (1st year)
    - Core coursework continues, scanning labs, clinical 2-3 days/week
  - Fall Semester (2<sup>nd</sup> year)
    - Core coursework continues, scanning lab, clinical 3-4 days/week
  - Spring Semester (2<sup>nd</sup> year)
    - Core coursework continues, registry review, resume building/graduation preparation, clinical 4 days/week

- 5 semesters 21 months
- Start in late August each year
- Fall & Spring 16 weeks
  - Mid-semester break week (1)
- Summer 12 weeks
- Between each 16 week semester 2 break weeks
- Personal time off each semester 3



- American Registry for Diagnostic Medical Sonography
  - SPI
    - Sonographic Physics & Instrumentation
  - RDMS (AB)
    - Registered Diagnostic Medical Sonographer Abdominal
  - RDMS (OB/GYN)
    - Registered Diagnostic Medical Sonographer Obstetrics/Gynecology
  - RVT
    - Registered Vascular Technologist



## Information for All Programs



- All programs start in late August each year
- Fall & Spring 16 weeks
  - Mid-semester break week (1)
- Summer 12 weeks (no mid-semester break)
- Between each semester 2 break weeks
- All RT, DMS and primary MRI students receive
   21 hours of requested time off each semester.
- No classes and clinical for all Cleveland Clinic recognized holidays including:
  - New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving (includes day after), and Christmas Day

# School of Diagnostic Imaging Contact Information



#### Faculty Contact Information

- Program Director
  - Gloria Albrecht MS, RT(R)
    - 216-448-3110 or 216-618-5250
    - galbrech@ccf.org





## Radiography Program Faculty Contact Information

- Coordinator
  - Barbara Fertig BS, RT(R)
    - 216-559-8342
    - bfertig@ccf.org
- Instructor
  - Kevin McDermott Med, RT(R)
    - 216-678-1753
    - mcdermk@ccf.org



#### CT/MRI Program Faculty

- Coordinator
  - Halley Majersky MEd, RT(R)(M)(CT)(MR)
    - 216-212-0484
    - majersh@ccf.org
- Instructor
  - Kimberly Saghy BS, RT(R)(CT)(MR)(MRSO)
    - 216-554-3375
    - saghyk@ccf.org
- Instructor
  - Gabe Kroupa MPH, (NM)(MR)(MRSO)
    - kroupag@ccf.org



#### Diagnostic Medical Sonography Program Faculty

- Manager
  - Angela Perry BSAS, RDMS(AB)(OB)(PS), RVT, RMSKs
    - 216-769-2452
    - perrya@ccf.org
- Coordinator
  - Amy Varcelli BSAS, RDMS(AB)(OB), RVT, RMSKs
    - 216-769-2481
    - varcela@ccf.org
- Instructor
  - Wendy Slaughter BS, RDMS(AB)(OB), RVT
    - 216-769-2482
    - slaughw@ccf.org



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