



# Cleveland Clinic

**School of Diagnostic Imaging**

## Information Session

Gloria Albrecht, MS, RT(R)

Program Director - 216-448-3110

[galbrech@ccf.org](mailto:galbrech@ccf.org)

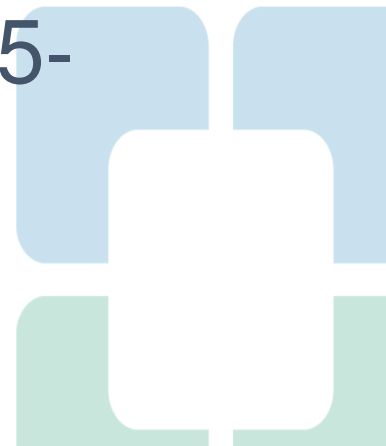
Website:

[www.clevelandclinic.org/sodi](http://www.clevelandclinic.org/sodi)



# 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 [rennicj@ccf.org](mailto:rennicj@ccf.org)



# Radiologic Technology Program



# Radiologic Technology Certificate & Degree Program

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

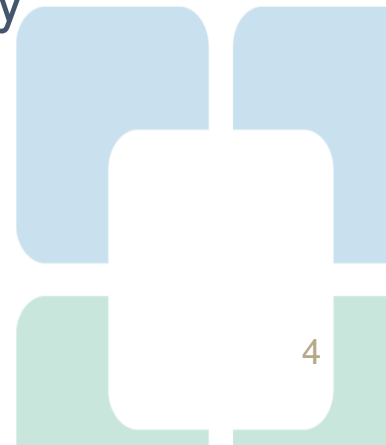
- Degree completion programs:

Cuyahoga Community College  
Associate of Applied Science in Radiologic Technology

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

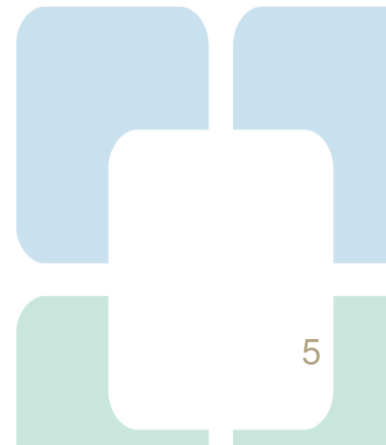
Lorain County Community College  
Associate of Applied Science in Radiologic Technology

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 not 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

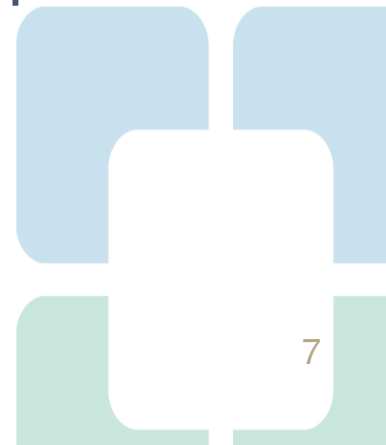
- Cleveland Clinic Program courses will transfer as college credit and apply toward the degree.
- Students will develop a plan to complete the general education requirements and any other degree requirements from the college.
- Cleveland Clinic Radiology Program courses transfer as a block credit toward 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

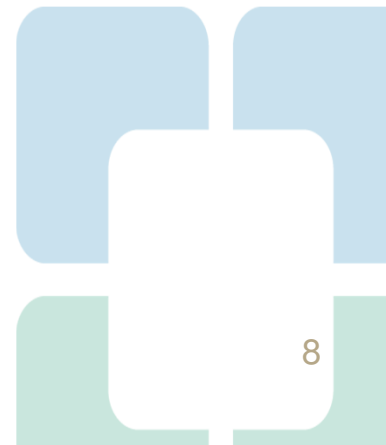
## Anatomy & Physiology I & II

- 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 2.50



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





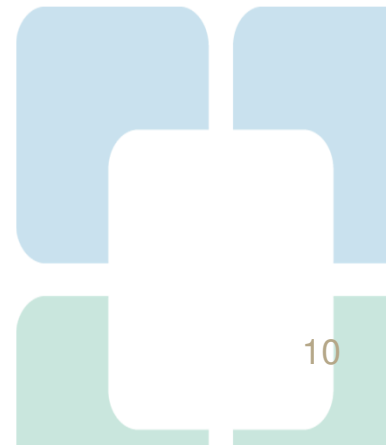
# Competitive/Selective Acceptance

- 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

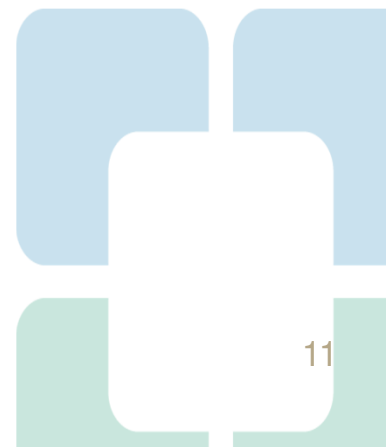


# Lorain County Community College

## Degree Completion Courses

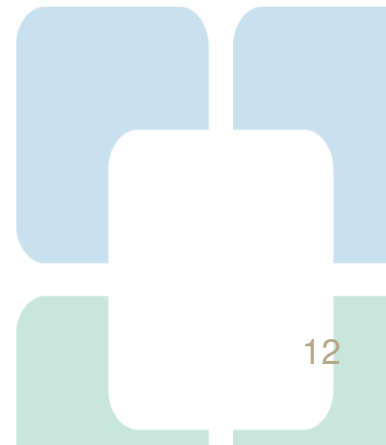
- BIOG 121 Anatomy and Physiology I
- BIOG 122 Anatomy and Physiology II
- AHLN 110 Medical Terminology
- MTHM 158 Quantitative Reasoning or,
- MTHM 168 Statistics
- ENGL 161 College Composition I
- ENGL 162 College Composition II
- BIOG 123 Cross-Sectional Anatomy
- SOCY 151 Introduction to Sociology

- 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

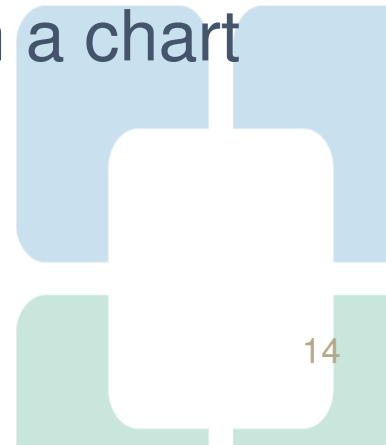
- BIOL 2210 Anatomy and Physiology I
- BIOL 2220 Anatomy and Physiology II
- HLTH 1215 Medical Terminology
- MATH 1330 Statistics for Health Sciences Mathematics  
or 3 credit hour college level mathematics
- ENGL 1110 English Composition I(A) or,
- ENGL 1111 English Composition I(B)
- 3 credits each from two of the following categories:
  - Arts & Humanities; Social & Behavioral Sciences; Natural Sciences
- Additional 3 credits math or one of the categories above or 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

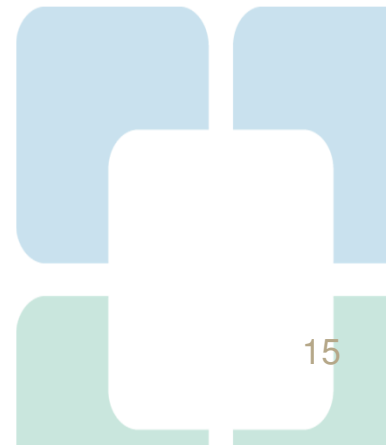
# Cleveland Clinic Technical Skill Requirements

- 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 25 pounds, support up to 125 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



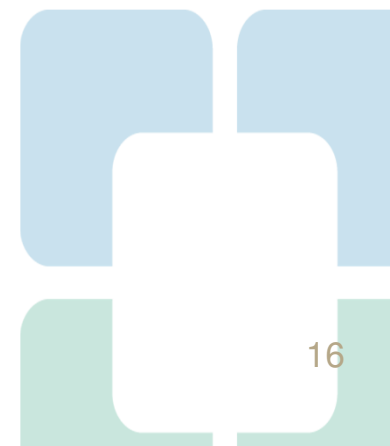
# Tuition & Fees

- 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](http://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 [www.us-gibillschools.com](http://www.us-gibillschools.com)
- We also participate in the Workforce Institute, a county approved Local Training Provider.

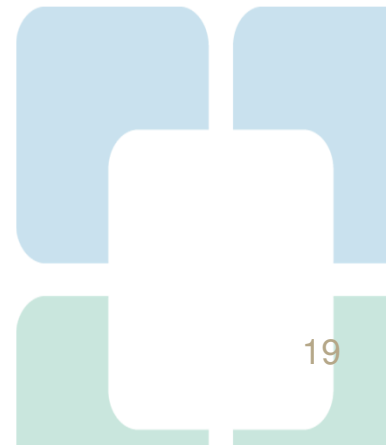
# Curriculum

- 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



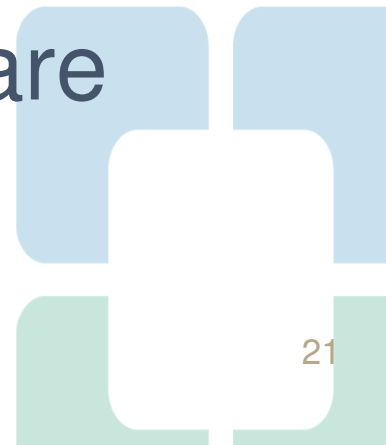
# Clinical Experience

- Family Health Centers
  - Beachwood
  - Brunswick
  - Lakewood
  - Strongsville
  - Twinsburg
  - Willoughby Hills
- Akron Health & Wellness Centers
  - Bath
  - Stow



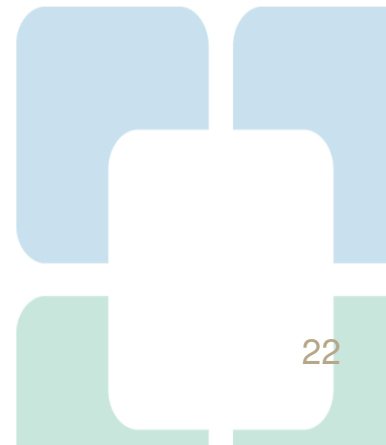
# Clinical Assignments

- 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
- Between each semester – 2 break weeks
- Days off each semester = 2



# 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

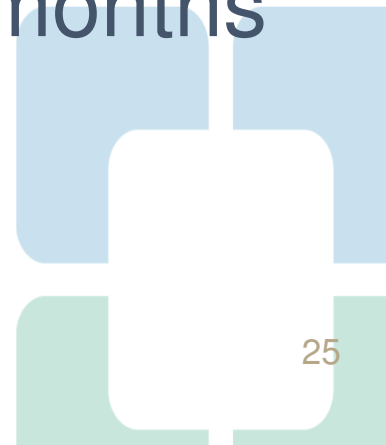
- Monday Clinical
- Tuesday Clinical
- Wednesday Clinical
- Thursday Class
- Friday Clinical





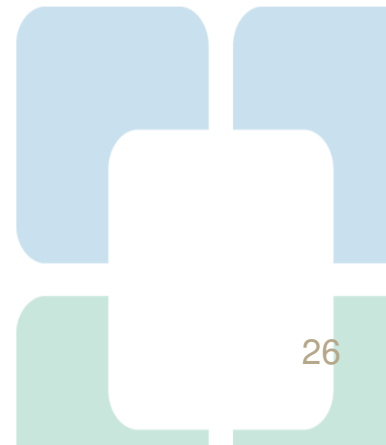
# Registry Exam Pass Rate Program Effectiveness Data

- Graduates are eligible to take the national registry exam by the American Registry of Radiologic Technologists (ARRT)
- 91.9% average first time pass rate for the past five (5) years by the ARRT
- Most graduates pass the registry exam on the first attempt
- 5-year average job placement within 12 months of graduation is 100%



# 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](mailto:mail@jrcert.org)



# Ohio State Board of Career Colleges and Schools

- Monitors and regulates Ohio's private post-secondary 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](mailto:Xray.Licensure@odh.ohio.gov)

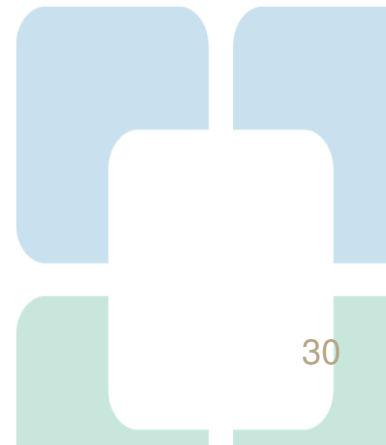


# Post Primary CT/MRI Programs



# 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

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

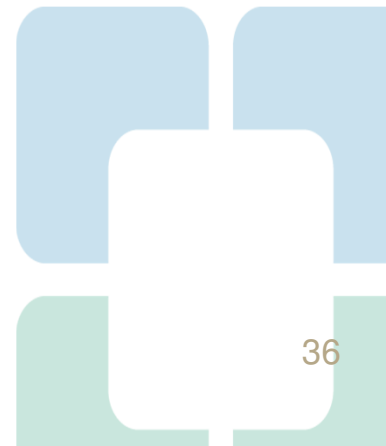
# Primary MRI Program

New for 2023



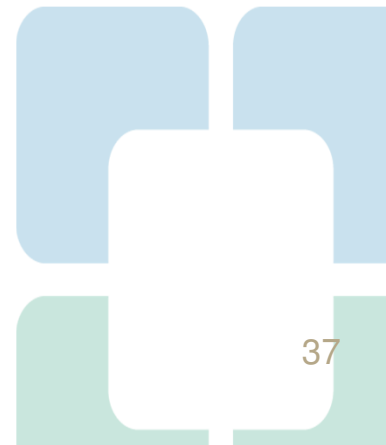
# Primary MRI Admission Requirements

- 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 2.50



# 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](http://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
- 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
- Summer semester
  - Ethics
  - Physics II
  - MRI Pathology
  - Clinicals
  - Study lab
- Spring semester
  - Procedures II
  - Physics I
  - Clinicals
- Fall semester
  - Advanced Imaging
  - Registry Review
  - Study lab



# Primary MRI Clinical Sites

- Akron General Hospital
- 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



# DMS 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 2.50** or higher



# DMS Program

- 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)



# DMS Program

## Cuyahoga County Community College

- [BIO-2331](#) Anatomy and Physiology I
- [BIO-2341](#) Anatomy and Physiology II
- [DMS-1071](#) 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

# DMS Program

## 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](http://www.ardms.org)
  - [www.sdms.org](http://www.sdms.org)





# DMS Program

- 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



# DMS Program

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



# DMS Program

- Course Schedule

- Fall Semester (1<sup>st</sup> year)

- Introduction to DMS, Patient Care, Cross-Sectional Anatomy, scanning labs, clinical 2 days/week

- Spring Semester (1<sup>st</sup> year)

- Core coursework begins, scanning labs, clinical 2-3 days/week

- Summer Semester (1<sup>st</sup> 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



# DMS Program

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



# DMS Program

- 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



# Holidays

- 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

**Gloria A. Albrecht MS, RT(R)**

Program Director

Phone: 216.448.3110

Cell: 216.618.5250

Fax:

E-mail: [galbrech@ccf.org](mailto:galbrech@ccf.org)

**Radiologic Technology Program Faculty:**

**Barbara Fertig BS, RT(R)**

Coordinator, Radiology Program

Phone: 216.559.8342

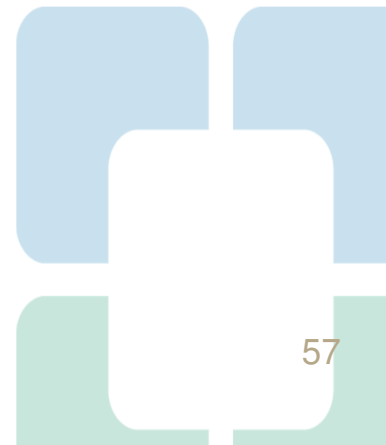
E-mail: [bfertig@ccf.org](mailto:bfertig@ccf.org)

**Kevin McDermott MEd, RT(R)**

Instructor, Radiology Program

Phone: 216.678.1753

E-mail: [mcdermk@ccf.org](mailto:mcdermk@ccf.org)



# Faculty Contact Information

## CT/MRI Program Faculty:

**Halley Majersky MEd,RT(R)(M)(CT)(MR)**

Coordinator, CT/MRI Program

Phone: 216.212.0484

E-mail: [majersh@ccf.org](mailto:majersh@ccf.org)

**Kimberly Saghy BS,RT(R)(CT)(MR)(MRSO)**

Instructor, CT/MRI Program

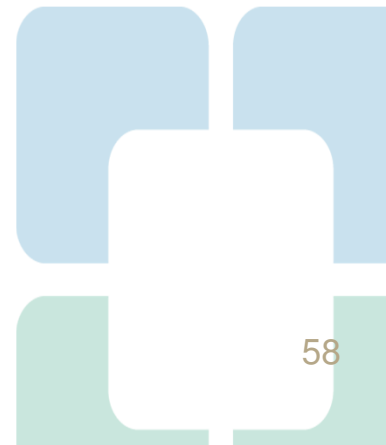
Phone: 216.554.0818

E-mail: [saghyk@ccf.org](mailto:saghyk@ccf.org)

**Gabriel Kroupa MPH,RT(NM)(MR)(MRSO)**

Instructor, MRI/RT Program

E-mail: [kroupag@ccf.org](mailto:kroupag@ccf.org)



# Faculty Contact Information

## Diagnostic Medical Sonography Program Faculty:

**Angela Perry, BSAS, RDMS(AB)(OB)(PS), RVT, RMSKs**

Manager, DMS Program

Phone: 216-769-2452

E-mail: [perrya@ccf.org](mailto:perrya@ccf.org)

**Amy Varcelli, BSAS, RDMS(AB)(OB), RVT, RMSKs**

Coordinator, DMS Program

Phone: 216-769-2481

E-mail: [varcela@ccf.org](mailto:varcela@ccf.org)

**Wendy Slaughter, BS, RDMS(AB)(OB), RVT**

Instructor, DMS Program

Phone: 216-769-2482

E-mail: [slaughw@ccf.org](mailto:slaughw@ccf.org)



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