



Academic Catalog

MCC-Ohio Supplement

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STATE APPROVAL

Midwestern Career College - Cleveland is licensed and registered with the State of Ohio Board of Career Colleges and Schools, **School Registration NO. 2283**.

Midwestern Career College - Columbus is licensed and registered with the State of Ohio Board of Career Colleges and Schools, **School Registration NO. 2282**.

ACCREDITATION

Midwestern Career College is accredited by the Commission of the Council on Occupational Education. For more information about the College's accreditation, you may contact Council on Occupational Education, 7840 Roswell Road, Building 300, Suite 325, Atlanta, GA 30350, Telephone: 770-396-3898, Fax: 770-396-3790, www.council.org

PROGRAMMATIC RECOGNITION

The Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology and Applied Science in Diagnostic Medical Imaging Radiography programs are programmatically recognized by the American Registry of Radiologic Technologists (ARRT): <https://www.arrt.org/about-the-profession/learn-about-the-profession/recognized-educational-programs>.

CAMPUS LOCATIONS AND DESCRIPTIONS

MCC-CLEVELAND AFFILIATE CAMPUS

7261 Engle Rd.,
Middleburg Heights, OH 44130
Tel: (216) 270-5080
Email: info@mcccollege.edu

Office Hours

Monday through Thursday	9am to 6pm
Friday	9 am to 4pm

Programs Offered

Associate degrees:

- Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology
- Associate of Applied Science in Diagnostic Medical Imaging Radiography

MCC-COLUMBUS AFFILIATE CAMPUS

2780 Airport Dr, Suite 120
Columbus, OH 43219
Tel: (614) 300-5710
Email: info@mcccollege.edu

Office Hours

Monday through Thursday	9am to 6pm
Friday	9 am to 4pm

Programs Offered

Associate degrees:

- Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology
- Associate of Applied Science in Diagnostic Medical Imaging Radiography

Administration

INSTITUTIONAL MANAGEMENT TEAM

D. Jeremy Oberfeld
CEO

Dr. Olga Gusak
Senior Vice President of Academic Affairs/PDSO

Izabela Shamanava
Vice President of Institutional Effectiveness/Registrar

AFFILIATE CAMPUSES ADMINISTRATIVE TEAM

James Holland
Campus Administrator MCC – Columbus

Jeff Edmister
Campus Administrator MCC – Columbus

ACADEMIC DEPARTMENT

Joyce Gaa
Director of Academic Operations and Student Services

Sangeetha Gopalaseshan
Director of Allied Health Programs

Hannah Roche
Sr. Manager, Online Learning Technology

Olia Sweiss
Librarian

Danielle Dertz
Program Director, AAS MRI and AAS RAD

Gary Gruenewald
Lead Instructor, AAS RAD

ADMISSIONS

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Director of Admissions

Regina Heredos
Senior Admissions Counselor – Cleveland

Paula Berger
Admissions Counselor and Campus Coordinator – Columbus

STUDENT SERVICES

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Student Services Manager

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Director of Business Development

Carrie Harviel

Regional Clinical Partnerships and Externship Coordinator

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Career Services Coordinator

FINANCIAL AID AND BUSINESS OFFICE

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PROGRAM AND COURSE NAME ABBREVIATIONS

Program Name	Program Abbreviation
Associate of Applied Science in Magnetic Resonance Imaging (MRI)Technology	AAS MRI
Associate of Applied Science in Diagnostic Medical Imaging Radiography	AAS RAD

FACULTY

FULL TIME

Dertz, Danielle Program Director	AAS MRI	Bachelor Administration – Colombia University, AAS Magnetic Resonance Imaging Technology - Midwestern Career College; Certification: Registered Technologist Magnetic Resonance Imaging (RT MR) - The American Registry of Radiologic Technologists (ARRT), AAS Diagnostic Medical Imaging Radiography – Midwestern Career College
Gruenewald, Gary Lead Instructor	AAS RAD	Masters in Health Services Administration – University of St. Francis Joliet, IL. Bachelors of Health Arts – College of St. Francis, Joliet, IL. Certificate Program – School of Radiologic Technology – Ravenswood Hospital, Chicago, IL. Certification: Radiography (R) - The American Registry of Radiologic Technologists (ARRT).
Mayes, Delicia	AAS MRI	AAS in MRI/CT Radiologic Technology – Lakeland Community College; AART

PART TIME

Evans, Abigail	AAS RAD	Certificate in Radiologic Technology – Cleveland Clinic School of Diagnostic Imaging; Bachelor of Science in Exercise Science – Slippery Rock University; Masters of Education in Health Professions Education – Cleveland State University; Certification: Radiography (R) - American Registry of Radiologic Technologists (ARRT)
Kubitza, Michael	AAS RAD	Bachelor of Science, in Healthcare Administration, Franklin University, Columbus, OH; Associates of Applied Science in Radiologic Technology, Kent State University, Salem, OH; Licensed Radiographer R.T. (R) (MR), The American Registry of Radiologic Technologists (ARRT).
Litten, Susan	AAS MRI	Masters of Health Administration and Education, University of Phoenix, Phoenix, AZ; Bachelor of Science Major in Health Administration, University of Phoenix, Phoenix, AZ; Certification: (R) Radiography, (MR) Magnetic Resonance Imaging, (CT) Computed Tomography - The American Registry of Radiologic Technologists (ARRT)
Stojanovic, Tamara	AAS RAD	Bachelor of Science – Youngstown State University, Youngstown, OH; Associate of Applied Science in Radiography - Cuyahoga Community College, Cleveland, OH

STUDENT HOLIDAY CALENDAR

There are no classes scheduled on the following holidays:

- New Year's Day, January 1
- Birthday of Martin Luther King, Jr., the third Monday in January
- Memorial Day, the last Monday in May
- Juneteenth National Independence Day, June 19
- Independence Day, July 4
- Labor Day, the first Monday in September
- Thanksgiving Day, the fourth Thursday in November
- Day after Thanksgiving
- Christmas Eve, December 24
- Christmas Day, December 25

ACADEMIC CALENDAR

Future program and term start dates are subject to change.

DEGREE PROGRAMS

New student orientation usually takes place one or two weeks before the start of the term. College success course starts after orientation and ends the day before the term start date. New students should check with their admissions counselor for new student orientation and college success dates for their program.

2025-2027 CALENDAR FOR OHIO AFFILIATE CAMPUSES

- Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology
- Associate of Applied Science in Diagnostic Medical Imaging Radiography

Allied Health Degree Programs are offered on an accelerated schedule with three 16-week terms per calendar year. New student orientation usually takes place one or two weeks before the start of the term. The college success course starts after orientation and ends the day before the term start date. New students should check with their admissions counselor for new student orientation and college success dates for their program

There is a one-week break between the Spring/Summer and Fall terms and a two to three-week break before the Winter term. There is no break in April for Spring Break, and there is no break between the Winter and Spring/Summer terms.

Course schedules are released 30 days prior to the start of each term. Final grades are submitted within seven days after the term ends. Student enrollment status changes are processed within 14 days of the final grade posting date.

Winter 2025	
Term Start	January 6, 2025
Term End	April 27, 2025
Spring/Summer 2025	
Term Start	April 28, 2025
Term End	August 17, 2025
Fall 2025	
Term Start	August 25, 2025
Term End	December 14, 2025
Winter 2026	
Term Start	January 5, 2026
Term End	April 26, 2026
Spring/Summer 2026	
Term Start	April 27, 2026
Term End	August 16, 2026
Fall 2026	
Term Start	August 31, 2026
Term End	December 20, 2026
Winter 2027	

Term Start	January 4, 2027
Term End	April 25, 2027
Spring/Summer 2027	
Term Start	April 26, 2027
Term End	August 15, 2027
Fall 2027	
Term Start	August 30, 2027
Term End	December 19, 2027

CANCELLATION POLICY – OHIO AFFILIATE CAMPUSES

All notices of cancellations must be made in writing to the Office of Admissions.

- The student has the right to cancel the Enrollment Agreement until midnight of the fifth (5th) business day after the date of signing enrollment agreement but prior to the first (1st) day of class. All tuition and instructional fees, including the application or registration fee shall be refunded to the student within thirty (30) days of cancellation.
- When notice of cancellation is given after midnight of the fifth (5th) business day following the date of signing enrollment agreement but prior to the close of business on the student's first (1st) day of class attendance, the college will retain the application or registration fee.
- New students are subject to a 15-calendar-day evaluation period at the beginning of their first term, during which time the college will evaluate the student's readiness to engage in his or her academic program. To meet the 15-day requirements, a student must show acceptable levels of attendance, academic progress, and completion of the enrollment process. If the college determines that the student is not prepared to engage with his or her program of study, the student will be cancelled from all classes. Students cancelled by the college shall receive a refund of all tuition and instructional fees, other than fees for any instructional materials that are not returned. Refunds will be issued within 30 calendar days of the date of cancellation.
- The College reserves the right to cancel classes when the number of students enrolled is too small.

TUITION REFUND POLICY – OHIO AFFILIATE CAMPUSES

Refunds for tuition and refundable fees shall be made in accordance with following provisions as established by Ohio Administrative Code section 3332-1-10:

- A student who starts class and withdraws during the first full calendar week of the quarter or semester shall be obligated for twenty-five percent (25%) of the tuition and refundable fees for that academic term plus the registration fee.
- A student who withdraws during the second full calendar week of the academic term shall be obligated for fifty percent (50%) of the tuition and refundable fees for that academic term plus the registration fee.
- A student who withdraws during the third full calendar week of the period academic term shall be obligated for seventy-five percent (75%) of the tuition and refundable fees for that academic term plus the registration fee.
- A student who officially withdraws beginning with the fourth full calendar week of the academic term will not be entitled to a refund of any portion of the tuition or refundable fees.

The college shall make the appropriate refund within thirty days of the date the school is able to determine that a student has withdrawn or has been terminated from a program. Refunds shall be based upon the last date of a student's attendance or participation in an academic school activity. Refunds are made directly to the source of payment. Deposits or down payments shall become part of the tuition.

- The college shall refund all tuition and fees paid by the student to the college in the following circumstances:

- a. The program offered by the college has authorization revoked for cause and the students enrolled in the program at the time of revocation are unable to complete the program at another institution.
- b. The college cancels or discontinues the program of study in which a student is enrolled without providing the student with a teach-out option. The student must be active in the program at the time of program cancellation.

Any refund of tuition and fees under this provision shall first be made to the applicable student aid lenders of each affected student.

In addition to the Refund Policy outlined above, the College shall use the "Return to Title IV Funds (R2T4) Policy" required by the U.S. Department of Education when performing R2T4 funds calculations.

Academic Programs

CIP CODES

Associate of Applied Science in Diagnostic Medical Imaging Radiography	51.0911
Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology	51.0920

CIP AND SOC CODES RELATIONSHIP

The 2010 Classification of Instructional Programs (CIP) is a taxonomic coding scheme of instructional programs. Its purpose is to facilitate the organization, collection, and reporting of fields of study and program completions activity. The CIP was originally developed in 1980 by the National Center for Education Statistics (NCES) in the U.S. Department of Education. For more information on CIP codes, please visit

<https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55>

The 2010 Standard Occupational Classification (SOC) system is used by Federal statistical agencies to classify workers into occupational categories to collect, calculate, or disseminate data. All workers are classified into one of 840 detailed occupations according to their occupational definition. To facilitate classification, detailed occupations are combined to form 461 broad occupations, 97 minor groups, and 23 major groups. For more information on SOC codes, please visit <http://www.bls.gov/soc/classification.htm>

Relationships between CIP and SOC may be one-to-one, one-to-many, many-to-one, or many-to-many. Since SOC codes tend to be more specific than CIP codes, it is likely that one CIP code will map to multiple SOC codes. This is in part because the CIP codes describe instructional programs that will often provide training that can be applied to multiple occupations.

It is possible that there may be no direct correspondence between a CIP Code and a SOC code. This may occur because the CIP program code is not career related, because an insufficient number of institutions offer the program, to justify having a CIP-SOC code crosswalk, or because program CIP contains "other" program code (These are codes ending in "99" code format: XX.XX99 or xx.9999), and the title ends in "Other." Where the scope of the group containing an "other" CIP is broader, it may not be possible to identify SOC codes for which the CIP program provides direct preparation. This is true, in part, because the CIP provides little or no guidance or information about what specialties are classified in the "other" CIP code, and the CIP classification allows for variation by the state as to what is classified as "other." For more information on the CIP-SOC crosswalk, please visit <https://nces.ed.gov/ipeds/cipcode/resources.aspx?y=55>

Associate of Applied Science in Diagnostic Medical Imaging Radiography

PROGRAMMATIC RECOGNITION

Midwestern Career College's Associate of Applied Science in Diagnostic Medical Imaging Radiography is recognized by the American Registry of Radiologic Technologists (ARRT): <https://www.arrt.org/about-the-profession/learn-about-the-profession/recognized-educational-programs>.

PROGRAM DESCRIPTION

The Associate of Applied Science in Diagnostic Medical Imaging Radiography program is designed for students who plan to learn more about radiography and become a professional in the health care field. It delves into the intricacies of biology, radiation safety, radiation protection, proper patient positioning, patient safety, equipment, image analysis, anatomy, and pathology. Through coursework and externship, students will become knowledgeable in the use of diagnostic medical imaging radiography for the purpose of helping physicians diagnose illness and pathology. Upon completion of the program, graduates will be prepared to take the American Registry of Radiologic Technologists (ARRT) certification and enter the workforce as an entry-level radiologic technologist.

PROGRAM MISSION STATEMENT

The mission of the Associate of Applied Science in Diagnostic Medical Imaging Radiography program is to provide premier career-focused education in radiographic medical imaging, preparing competent entry-level radiographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

PROGRAM INFORMATION

Program Length: **80 weeks**

Clock Hours: **1680**

Semester Credit Hours: **73**

Eligibility to sit for the American Registry of Radiologic Technologists (ARRT) certification upon program completion.

PROGRAM OBJECTIVES

The Associate of Applied Science in Diagnostic Medical Imaging Radiography prepares students to:

- Demonstrate knowledge and clinical competency to perform the duties of an entry-level radiologic technologist;
- Communicate effectively and professionally as a member of the healthcare team;
- Demonstrate problem-solving and critical thinking skills;
- Demonstrate professional and ethical conduct in a health care setting.

PROGRAM GOALS

The Associates of Applied Science in Diagnostic Medical Imaging Radiography Program prepares competent entry-level radiographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Cognitive

- Recognize the difference between normal anatomy and pathology;
- Understand how to adjust protocols per exam;
- Develop critical thinking in a high paced radiography setting.

Psychomotor

- Demonstrate knowledge and skill level to select appropriate protocols and parameters needed to perform successful radiographic exams;

- Demonstrate proper patient positioning procedures.

Affective

- Recognize the importance of proper patient care and safety in a challenging environment;
- Learn the value of patient understanding, empathy, and sympathy;
- Provide patient care and instructions specific to exam procedures.

CURRICULUM DEVELOPMENT

Midwestern Career College has developed its curriculum for the AAS in Diagnostic Medical Imaging Radiography program using the recommendations and guidelines set forth by American Registry of Radiologic Technologists (ARRT), the American Society of Radiologic Technologists (ASRT), and by the American College of Radiology (ACR).

PROGRAM COURSES

Courses	Semester Credit Hours
Term I	
ALH102 Anatomy and Physiology	3
ALH104 Medical Terminology	2
BIO101 Introduction to Biology	3
RAD104 Principles of Radiography I	3
RAD105 Patient Care in Radiography	3
Term II	
RAD112 Radiographic Anatomy	3
RAD114 Principles of Radiography II	3
RAD121 Radiographic Positioning and Procedures I	3
RAD125 Radiation Health and Safety	3
Term III	
RAD120 Law and Ethics in Imaging Sciences	1
RAD122 Radiographic Positioning and Procedures II	3
RAD140 Radiographic Pathology	2
RAD161 Clinical Education I	6
SYC114 Introduction to Psychology	3
Term IV	
HUM115 Introduction to Humanities	3
RAD123 Specialized Procedures in Radiography	3
RAD145 Radiographic Image Analysis	2
RAD162 Clinical Education II	6
Term IV	
ENG118 Introduction to Communication & Composition	3
MTH113 General Education Mathematics	3
PRO115 Professional Development for Medical Imaging	3
RAD155 DMIR Registry Review	3
RAD163 Clinical Education III	6

Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology

PROGRAMMATIC RECOGNITION

The program is recognized by the American Registry of Radiologic Technologists (ARRT):
<https://www.arrt.org/about-the-profession/learn-about-the-profession/recognized-educational-programs>.

PROGRAM DESCRIPTION

Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology program prepares students with the general education, applied knowledge, technical skills, and work habits required for entry-level positions in the Magnetic Resonance Imaging (MRI) Technology field. The Magnetic Resonance Imaging Technologist utilizes the resonant frequency properties of atoms within a magnetic field to image anatomic and/or physiologic conditions of the body to assist physicians in the diagnosis and treatment of disease.

PROGRAM MISSION STATEMENT

The mission of Midwestern Career College's Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology program is to provide premier career-focused education in Magnetic Resonance Imaging (MRI) technology to prepare competent entry-level Magnetic Resonance Imaging technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

PROGRAM INFORMATION

Program Length: **80 weeks**

Clock Hours: **1840**

Semester Credit Hours: **72**

Eligibility for Phlebotomy Certification through National Center for Competency Testing (NCCT).

Eligibility for the Registered Phlebotomy Technician (RPT) exam through American Medical Technologists (AMT) after completing 25 additional venipunctures draws (total of 50) and 10 skin punctures not provided by MCC.

Eligibility to sit for the American Registry of Radiologic Technologists (ARRT) certification upon program completion.

PROGRAM OBJECTIVES

The Associate of Applied Science in Magnetic Resonance Imaging (MRI) Technology Program prepares students to:

- Demonstrate knowledge and clinical competency to perform the duties of an entry-level MRI technologist;
- Communicate effectively and professionally as a member of the healthcare team;
- Demonstrate problem-solving and critical thinking skills;
- Demonstrate professional and ethical conduct.

PROGRAM GOALS

The Associates of Applied Science in Magnetic Resonance Imaging (MRI) Technology Program prepares competent entry-level Magnetic Resonance Imaging technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Cognitive

- Recognize the difference between normal anatomy and pathology;
- Understand how to adjust protocols per exam;
- Develop critical thinking in a high paced MRI setting.

Psychomotor

- Demonstrate knowledge and skill level to select appropriate protocols and parameters needed to perform successful MRI exams;
- Demonstrate proper patient positioning procedures.

Affective

- Recognize the importance of proper patient care and safety in a challenging environment;
- Learn the value of patient understanding, empathy, and sympathy;
- Provide patient care and instructions specific to exam procedures.

CURRICULUM DEVELOPMENT

Midwestern Career College has developed its curriculum for the AAS in MRI Technology program using the recommendations and guidelines set forth by the American Registry of Magnetic Resonance Imaging Technologists (ARMRIT), American Registry of Radiologic Technologists (ARRT), the American Society of Radiologic Technologists (ASRT), and by the American College of Radiology (ACR).

PROGRAM COURSES/SAMPLE SEQUENCE OF COURSES

The program course sequence is subject to change.

Courses	Semester Credit Hours
Term I	
ALH102 Anatomy and Physiology	3
ALH104 Medical Terminology	2
BIO101 Introduction to Biology	3
MRI115 MRI Physics and Instrumentation	3
MRI125 Patient Care and Safety in MRI	4
Term II	
ALH125 Venipuncture for Imaging Professionals	3
ENG118 Introduction to Communication & Composition	3
MRI135 Sectional Anatomy I	3
MRI151 MRI Clinical Positioning Sim I	3
Term III	
MRI119 Laws and Ethics in Imaging Sciences	2
MRI144 MRI Clinical I	6
MRI152 MRI Clinical Positioning Sim II	3
SYC114 Introduction to Psychology	3
MRI136 Sectional Anatomy II	2
Term IV	
MRI153 MRI Clinical Positioning Sim III	3

MRI145 MRI Clinical II	6
HUM115 Introduction to Humanities	3
MRI249 Medical Imaging Pathology	2
Term IV	
PRO115 Professional Development for Medical Imaging	3
MRI265 MRI Registry Review	3
MRI146 MRI Clinical III	6
MTH113 General Education Mathematics	3

Course Descriptions

ASSOCIATE OF APPLIED SCIENCE IN DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY

ALH104 Medical Terminology

Course Prerequisite: none

Credit Hours: 2

Medical terminology is the language of medicine. In this course students are introduced to prefixes, suffixes, and word roots so that they can recognize, define, spell, and pronounce medical terms accurately.

ALH102 Anatomy and Physiology

Course Prerequisite: none

Credit Hours: 3

Students are introduced to human anatomy and physiology, the different cells, tissues, organs and organ systems of the body, their functions and how they work together.

PRO115 Professional Development for Medical Imaging

Course Prerequisite: none

Credit Hours: 2

The Professional Development course is designed to improve the soft skills of Medical Imaging students — including its key roles, modalities, and professional settings. The course focuses on enhancing essential soft skills such as communication, teamwork, and professionalism. Students will explore various career paths, research potential employers, and evaluate industry expectations

RAD104 Principles of Radiography I

Course Prerequisite: None

Credit Hours: 3

The course introduces the beginning radiography student to the nature and properties of x-radiation and its use in diagnostic medical imaging. The course covers safety measures when using radiation, the creation of x-radiation in the tube, the circuitry involved in its production, various types of equipment used in the field and an understanding of both the hardware and software of digital imaging.

RAD114 Principles of Radiography II

Course Prerequisite: RAD104

Credit Hours: 3

The course begins with a review of the fundamentals of digital imaging systems, including terminology, types of digital receptors, and the response of digital detectors to exposure variations. The parameters of image quality are reviewed: IR exposure, contrast, detail and distortion. The need for and use of quality management tools and techniques are discussed. Standard radiographic modalities are studied including mobile radiography, fluoroscopy and tomography/tomosynthesis. The course concludes with a discussion of advanced modalities used in diagnostic imaging.

RAD121 Radiographic Positioning and Procedures I

Course Prerequisite: RAD101 ALH141

Credit Hours: 3

Introduction to the principles of radiography including positioning and radiographic image evaluation of the abdomen, chest, upper extremities, lower extremities, gastrointestinal, bony thorax and biliary systems and also provide appropriate recommendations for improving the diagnostic quality of the radiograph.

RAD122 Radiographic Positioning and Procedures II

Course Prerequisite: RAD121

Credit Hours: 3

This course is designed to enhance the necessary skills needed to accurately position patient and evaluate the radiographic image including special projection and methods of the urinary system, reproductive system, vascular, cardiac, and interventional radiography, mobile, surgical, and pediatric radiography and provide appropriate recommendations for improving the diagnostic quality of the radiograph.

RAD112 Radiation Anatomy

Credit Hours: 3

This course covers the anatomical make-up of the human body – both in form and function. Topics include: a thorough overview of anatomical structures, common fractures and pathologies, and the body's various systems as presented in imaging studies. The course complements the radiographic positioning and procedures courses.

RAD105 Patient Care in Radiography

Course Prerequisite: none

Credit Hours: 3

This course covers the basic concepts of patient care, including personal and physiological needs of the patient, diversity, age-specific patient care and communication and communication with family members. Topics include routine and emergency care procedures, patient assessment, medication information and administration, standard and universal precautions and infection control concepts, biological effects of radiation, source of radiation and radiation exposure. Other topics include fire and workplace safety.

RAD120 Law and Ethics in Imaging Sciences

Course Prerequisite: None

Credit Hours: 2

This course is designed to provide a fundamental background in ethics and healthcare laws in the imaging profession. The course also provides the historical and philosophical basics of ethics, the elements of ethical behavior and ethical issues and dilemmas. Topics include an introduction to legal terminology, concepts and principles, misconduct, malpractice, legal and professional standards, and an emphasis on the importance of proper documentation and informed consent. Other topics include the basic concepts of patient information management, medical records management including privacy and regulatory issues and the role of the technologist in the management of patient information (HIPAA).

RAD140 Radiographic Pathology

Course Prerequisite: RAD110

Credit Hours: 2

This course will familiarize the students with the common pathologies as seen in radiography. It will deal with the etiology and processes of trauma and disease. Emphasis will be placed on radiographic pathology of the body systems and the manifestation of this pathology. Case studies and images of the pathologies will be used to reinforce the lectures.

RAD123 Specialized Procedures in Radiography

Course Prerequisite: RAD122

Credit Hours: 2

An introduction to the use of radiopharmaceuticals for enhancement of various anatomical structures within the human body. Includes coverage of common types of contrast agents, their administration, their physiological effects on various organ systems, and emergent treatment.

RAD125 Radiation Health and Safety

Course Prerequisite: none

Credit Hours: 3

Students are introduced to the principles of, and the reasons for, radiation protection. The responsibilities of the radiographer and protective measures for patients, personnel and the public are studied. Also covered is discussion of the sources of radiation, the units of radiation measurement, molecular and cellular radiation biology and federal and state radiation health and safety regulations.

RAD145 Radiographic Image Analysis

Course Prerequisite: RAD122

Credit Hours: 2

The course reviews and challenges the student to formulate hypotheses and test theories regarding ways in which image quality and accuracy of positioning can be improved in the radiographic imaging of the chest, abdomen, bony thorax, digestive system, lower and upper extremities, shoulder, pelvis, hip and spine.

RAD155 DMIR Registry Review

Course Prerequisite: RAD136

Credit Hours: 2

This course will provide examination preparation and review of the important topics in relation to the American Registry of Radiologic Technologists (ARRT).

RAD161 Clinical Education I

Course Prerequisite: RAD121

Credit Hours: 6

This course provides a supervised clinical experience at a clinical site. Included are application of equipment operation, radiation safety, medico legal and ethical protocols, record keeping and patient care. Additionally, the student will develop and demonstrate a professional work ethic and at the same time learn the necessary skills needed to function as a Radiography Technologist in the clinical environment.

RAD162 Clinical Education II

Course Prerequisite: RAD161, ALH145

Credit Hours: 6

This course provides a supervised clinical experience at a clinical site. Included are application of equipment operation, radiation safety, medico legal and ethical protocols, record keeping and patient care. Additionally, the student will develop and demonstrate a professional work ethic and at the same time learn the necessary skills needed to function as an Radiography Technologist in the clinical environment.

RAD163 Clinical Education III

Course Prerequisite: RAD162

Credit Hours: 6

This course provides a supervised clinical experience at a clinical site. Included are application of equipment operation, radiation safety, medico legal and ethical protocols, record keeping and patient care. Additionally, the student will develop and demonstrate a professional work ethic and at the same time learn the necessary skills needed to function as an Radiography Technologist in the clinical environment.

ASSOCIATE OF APPLIED SCIENCE IN MAGNETIC RESONANCE IMAGING (MRI) TECHNOLOGY**ALH102 Anatomy and Physiology**

Course Prerequisite: none

Credit Hours: 3

This course consists of comprehensive and relevant coverage of the Anatomy and Physiology of Human Body Systems. Students learn about Human body structures and location, body cavities, terms of reference, human organization. Students learn a different type of tissues their functions and location in the body. Coursework includes the Anatomy and physiology of the human body systems and discusses the Integumentary system, Skeletal and Muscular System, Cardiovascular, Digestive, Respiratory, Urinary, Endocrine, Nervous, Blood and Lymphatic, Reproductive System, with an emphasis on the Diseases of the body system and surgical and diagnostic procedures.

ALH104 Medical Terminology

Course Prerequisite: none

Credit Hours: 3

This course introduces students to Medical terminology: suffixes, prefixes, basic word structure, root words, abbreviations and applying the word building process for analyzing medical terms. Emphasis will be placed on defining and spelling anatomic structures and medical terminology related to Body Systems.

ALH125 Venipuncture for Imaging Professionals

Course Prerequisite: none

Credit Hours: 3

This course provides the student with comprehensive and relevant coverage of phlebotomy, medical law and ethics and legal concepts. Other topics include patient confidentiality (HIPAA), OSHA and safety, standard precautions, isolation procedures, equipment, venipuncture complications and specimen handling and transport.

MRI115 MRI Physics and Instrumentation

Course Prerequisite: none

Credit Hours: 3

The course provides an in-depth history of magnetic resonance imaging and clinical practice and an understanding of the principles of this technology. Topics include the physical principles of magnetic resonance imaging, its physics to include electromagnetism, radio frequency system, gradient system, nuclear magnetism, tissue characteristics, instrumentation, and clinical indicators for utilization of magnetic resonance imaging.

MRI119 Laws and Ethics in Imaging Sciences

Previous ID: MRI120 (1 credit)

Course Prerequisite: none

Credit Hours: 2

This course is designed to provide a fundamental background in ethics and healthcare laws in the imaging profession. The course also provides the historical and philosophical basics of ethics, the elements of ethical behavior and ethical issues and dilemmas. Topics include an introduction to legal terminology, concepts and principles, misconduct, malpractice, legal and professional standards, and an emphasis on the importance of proper documentation and informed consent. Other topics include the basic concepts of patient information management, medical records management including privacy and regulatory issues and the role of the technologist in the management of patient information (HIPAA).

MRI125 Patient Care and Safety in MRI

Course Prerequisite: none

Credit Hours: 4

This course covers the basic concepts of patient care, including personal and physiological needs of the patient, diversity, age specific patient care and communication and communication with family members. Topics include routine and emergency care procedures, patient assessment, medication information and administration, standard and universal precautions, and infection control concepts. Other topics include fire and workplace safety.

MRI135 Sectional Anatomy I

Course Prerequisite: ALH102, ALH104

Credit Hours: 3

This course offers the student an introduction to cross-sectional anatomy, anatomic positions, body planes and cavities, terminology, landmarks, and other imaging planes relevant to demonstrating anatomy on MR images. Other topics include the cross-sectional anatomy of the cranium and facial bones, brain, the spine and spinal cord, soft tissue of the neck and the endocrine system.

MRI136 Sectional Anatomy II

Course Prerequisite: MRI135

Credit Hours: 2

This is a study of human anatomy as seen in axial, sagittal, and coronal planes. Other imaging planes are studied when relevant for a demonstration of anatomy in specific regions. Correlation to MR images is practiced in this course. A study of normal anatomy and normal variations and its appearance in planes enables the student to better recognize abnormal conditions and thus make the associated changes in imaging requirements to adequately demonstrate the patient's anatomy and pathology. Topics include the thorax-abdomen. Pelvis and the musculoskeletal system will be discussed in this course.

MRI151 MRI Clinical Positioning Sim I

Course Prerequisite: ALH102, MRI115

Credit Hours: 3

This course will provide the student with anatomy, position, imaging techniques and suggested protocols related to the head, spine, spinal cord, and soft tissue structures of the neck. Other topics covered are anatomical structures and the plane that best demonstrates the anatomy, coils, and scan sequencing.

MRI152 MRI Clinical Positioning Sim II

Course Prerequisite: MRI151

Credit Hours: 3

This course provides the student with the patient positioning and imaging techniques related to the upper and lower extremities and the pelvic girdle. Other topics include clinical applications such as coils; scan sequencing, protocols, positioning criteria, signal characteristics of normal and abnormal structures and the plane that best demonstrates the anatomy in the production of high-quality images.

MRI153 MRI Clinical Positioning Sim III

Course Prerequisite: MRI152

Credit Hours: 3

This course provides the student with the patient positioning and imaging techniques related to the abdomen and its related structures and organs, pelvis, and the male and female reproductive systems. Other topics include clinical applications such as coils, scan sequencing, protocols, positioning criteria, signal characteristics of normal and abnormal structures, and the plane that best demonstrates the anatomy in the production on high-quality images.

MRI249 Medical Imaging Pathology

Course Prerequisite: MRI136

Credit Hours: 2

This course will familiarize the students with the common pathologies as seen in magnetic resonance imaging. Case studies and images of the pathologies will be used to reinforce the lectures. Technologists doing magnetic resonance imaging must be able to recognize the general appearance of pathology and recognize the need for additional sequences, changes in protocols and the need for contrast studies based upon the recognition of pathological changes.

MRI265 MRI Registry Review

Course Prerequisite: none

Credit Hours: 3

This course will provide examination preparation and review of the important topics in relation to the American Registry of Radiologic Technologists (ARRT) and/or American Registry of Magnetic Resonance Imaging Technologists (ARMRIT) national certification.

PRO115 Professional Development for Medical Imaging

Course Prerequisite: none

Credit Hours: 2

The Professional Development course is designed to improve the soft skills of Medical Imaging students — including its key roles, modalities, and professional settings. The course focuses on enhancing essential soft skills

such as communication, teamwork, and professionalism. Students will explore various career paths, research potential employers, and evaluate industry expectations

MRI144 MRI Clinical I

Course Prerequisite: MRI119, MRI125

MRI145 MRI Clinical II,

Course Prerequisite: MRI151

MRI146 MRI Clinical III

Course Prerequisite: MRI215, MRI225

Credit Hours: 6 each

This course provides supervised clinical experience at a clinical site. Included are application of equipment operation, MR safety, medicolegal and ethical protocols, record keeping and patient care. Head and neck techniques and procedures, as well as spine and extremity work, will be performed. Additionally, the student will develop and demonstrate a professional work ethic and at the same time learn the necessary skills needed to function as an MRI Technologist in the clinical environment.

GENERAL EDUCATION COURSE DESCRIPTIONS

ENG118 Introduction to Communication & Composition

Course Prerequisite: None

Credit Hours: 3

This course provides students with foundational skills in both oral and written communication, preparing them for academic, professional, and personal success. Students will explore interpersonal communication (including perception, listening, and verbal/nonverbal expression), public speaking (organization, delivery, and speech writing), and small group dynamics (leadership, assertiveness, and collaboration). Simultaneously, they will develop rhetorical awareness and effective writing strategies through diverse composing processes tailored to various audiences and contexts. Emphasis will be placed on feedback, revision practices, and the integration of instructor guidance to refine both spoken and written work. By engaging in a range of communication tasks, students will gain confidence and competence in expressing ideas clearly and persuasively across multiple platforms.

SYC114 Introduction to Psychology

Course Prerequisite: None

Credit Hours: 3

This is a general overview course focusing on the scientific study of both the behavioral and mental processes of human beings and animals. More specifically, we will be covering: a history of psychology and scientific thought, biological basis of behavior, research methodology, statistics, sensation and perception, states of consciousness, memory, language and intelligence, developmental psychology, personality, and learning.

HUM115 Introduction to Humanities

Course Prerequisite: None

Credit Hours: 3

An interdisciplinary, multi-perspective assessment of cultural, political, philosophical, and aesthetic factors critical to the formulation of values and the historical development of the individual and of society.

MTH113 General Education Mathematics

Course Prerequisite: None

Credit Hours: 3

This course focuses on mathematical reasoning and solving real-life problems. Three topics are to be studied in depth, chosen from the following list: counting techniques and probability, game theory, geometry, graph theory, linear programming, logic/set theory, and statistics. Mathematical modeling must be integrated into any combination of topics selected. Applications involving problem-solving skills are emphasized throughout the course.

BIO101 Introduction to Biology

Course Prerequisite: None

Credit Hours: 3

An introduction to the principles and fundamental concepts in Biology of how they relate to living organisms. Topics include Structure of DNA, DNA replication, Central Dogma, and Mendelian genetics. The course has a lab component and will emphasize topics covered in the lecture.

Tuition and Fees Breakdown

Ohio Affiliate Campuses

ADMINISTRATIVE FEES

The college reserves the right to revise any administrative fees without notice, except for tuition and fees defined in the student's Enrollment Agreement. The administrative fees are generally non-refundable unless specified otherwise. Any refunds of administrative fees will be applied directly towards student's open balance if any. If the refund results in a credit balance on the student's account, the refund will be issued to the student in the same form of payment. Students may be held responsible for damage to facility, equipment or any other MCC property and will be required to pay any charges or fees associated with the services, repairs and/or replacements.

Abroad application processing fee for F-1 applicants	\$250
Transfer processing fee for F-1 applicants	\$100
Change of Status (COS) processing fee for F-1 applicants	\$500
Reinstatement of Status processing fee for F-1 applicants	\$200
Incoming wire fee (domestic & international wires)	\$15
Externship placement fee for allied health programs with optional externship course	\$150 per course
Externship extension fee (monthly)	\$250
Externship Self-Placement Administrative Fee	\$275
Lecture course audit fee	\$500
Lab course audit fee	\$900
Phlebotomy course audit fee	\$500
CPR Exam fee (includes CPR book)	\$60
Student ID card replacement fee	\$15
Building key card replacement fee	\$50
Commencement Registration fee	\$80+
Official Transcript fee (per copy) – ordered and paid through Parchment	\$20+ per copy
Urgent Official transcript request fee – ordered and paid through Parchment	\$25+ per copy
Additional copies of Certificate of Completion (COC) – ordered and paid through Parchment	\$45 per copy
Urgent COC request fee	Additional \$25
Enrollment Verification Letter/Form – ordered through Parchment	\$16+ per copy
Returned check/check reissuance/failed transaction/cancelled transaction	\$35
Additional jurisdiction background search fee (estimated)	\$20 per jurisdiction
Additional criminal background check fee	\$20
Payment Plan Set-up Fee	\$100
Additional Uniform Scrub Set	\$36
Uniform Exchange Fee	\$10
Online Accuplacer Placement Test	\$25
Replacement 1098T	\$10

PROGRAM FEES

Program-specific fees charged each term or during designated terms are due on the first day of the applicable term. These fees are generally non-refundable and are not subject to proration in the event of a student's withdrawal after the term begins, except as otherwise specified or required by the Tuition Refund Policy.

TUITION DISCOUNTS

All tuition discounts are applicable to full-time (FT) tuition only unless specified otherwise in writing in published material.

FEES FOR LATE OR DELINQUENT PAYMENT

A late or delinquent payment fee charge will be applied to all balances that are still outstanding 10 calendars days after the payment was due. The amount of the fee will be determined by the amount of the balance that is outstanding: 5% of the delinquent payment amount or \$10 whichever is greater.

The college has the right to send all outstanding balances to collections after reasonable efforts have been made to settle the outstanding balance. All amounts sent to collections will include delinquency fees and collection fees that will become the indisputable part of the outstanding balance.

EXTERNAL FEES

External fees are not paid directly to Midwestern Career College (MCC) and are outside of the college's control. All costs are estimated, and prices are subject to change without notice or MCC's knowledge. Examples include, but are not limited to the fees to cover the cost of shipping, vaccination, physical exam, background check, costs for travel to and from school and clinical education site, site-specific vaccination and drug screening requirements, site-specific uniform costs, or any other additional costs imposed by a third-party service, clinical site, certification, and/or credentialing agencies among others.

CERTIFICATION REIMBURSEMENT POLICY

MCC will reimburse the cost of the certain certification once per certification attempt. Students should check with the Business Office for their program cohort eligibility. To qualify for reimbursement students must:

- Receive written approval from the Program Director or designee before applying for the certification exam. Passing the program exit exam or certification preparation exam may be required to receive approval;
- Attempt the certification exam no later than 180 days from the program completion date;
- Provide a copy of the certification exam results (passing or failing) to the Program Director or designee within 14 calendar days of taking the exam or within 14 calendar days of the receipt of the certification exam results, if the results are not available immediately;
- Provide a copy of payment receipt to the Program Director or designee;
- Be in good academic, financial, and conduct standing with the college at the time of reimbursement.

If certification exam cost changes, MCC will reimburse the student up to the amount listed on this disclosure, but not higher than the actual cost of the certification exam as paid by the student. MCC will not reimburse the certification exam costs paid by third parties. If a student has an open balance with the college, the certification exam reimbursement will be applied directly towards the student's open balance. If a student does not have an open balance with the college, a check will be mailed to the student's address on file with the college, unless other arrangements are made in advance with the Business Office. The policy may change with or without notice.

PROGRAM TUITION AND FEES – OHIO AFFILIATE CAMPUSES

ASSOCIATE OF APPLIED SCIENCE IN DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY

Application fee: \$0

Tuition per term:

FT 12+ credits: \$8,400

PT 9-11 credits: \$7,675

PT 6-8 credits: \$6,975

PT 5 or fewer credits: \$820 per attempted credit

Tuition charges are separate from program fees.

Program Fees:

Learning Management System Fee: \$200 per term

Technology Fee: \$450 per term

Program Resource Fee: \$600 in term 1; \$100 per term (Terms 2, 3, 4, 5, and any additional terms)

Clinical Placement Fee: \$150

Book Fee: \$220

Book charges are posted to the student ledger individually in the term in which the corresponding course is scheduled.

Total Estimated program book cost: \$1,161-\$1,309

The estimated total cost of books for this program includes:

- A required \$220 book fee charged by MCC (listed above), which covers e-books and course materials provided by the college; and
- Estimated additional book costs for required books and materials that students must purchase separately from third-party vendors.

The estimated cost of books purchased outside of MCC is based on current pricing and is subject to change.

Actual costs may vary depending on book editions, book format, course requirements, vendor pricing, and purchasing options.

Estimated additional out-of-pocket program costs:

HESI Exam: \$110 - \$137

Malpractice Insurance: \$40

Cost of physical exam: varies

Cost of immunizations: varies

Criminal background check: varies

CPR training: \$60

Xray Markers: \$20

ARRT Radiography (R): \$225 (see Certification Reimbursement Policy)

Ohio Department of Health (ODH): \$65

Estimated dosimetry badge fee: \$100

Additional out-of-pocket program costs may be incurred. Additional external fees are not paid directly to Midwestern Career College (MCC). All costs are estimated, and prices are subject to change without notice or MCC's knowledge. Examples include but are not limited to the fees to cover the cost of vaccination, drug screening, physical exam, and background check, among others that may be applicable. Estimates below do not include costs for travel to and from school and clinical education site, site-specific vaccination and drug screening requirements, site-specific uniform costs, or any other additional costs imposed by clinical sites, certification,

and/or credentialing agencies among others. Students should also refer to the catalog and their enrollment agreement for more information on program specific and/or administrative fees.

ASSOCIATE OF APPLIED SCIENCE IN MAGNETIC RESONANCE IMAGING (MRI) TECHNOLOGY

Application fee: \$0

Tuition per term:

FT 12+ credits: \$8,400

PT 11-9 credits: \$7,675

PT 8-6 credits: \$6,975

PT 5 or fewer credits: \$820 per attempted credit

Tuition charges are separate from program fees.

Program Fees:

Learning Management System Fee: \$200 per term

Technology Fee: \$450 per term

Program Resource Fee: \$400 per term (Terms 1, 2, 3); \$300 per term (Terms 4, 5, and any additional terms)

Clinical Placement Fee: \$150

Book Fee: \$275

Book charges are posted to the student ledger individually in the term in which the corresponding course is scheduled.

Total Estimated program book cost: \$535-585

The estimated total cost of books for this program includes:

- A required \$275 book fee charged by MCC (listed above), which covers e-books and course materials provided by the college; and
- Estimated additional book costs for required books and materials that students must purchase separately from third-party vendors.

The estimated cost of books purchased outside of MCC is based on current pricing and is subject to change. Actual costs may vary depending on book editions, book format, course requirements, vendor pricing, and purchasing options.

Estimated additional out-of-pocket program costs:

HESI Exam: \$110 - \$137

Malpractice Insurance: \$40

Cost of physical exam: varies

Cost of immunizations: varies

Criminal background check: varies

CPR training: \$60

ARRT Magnetic Resonance Imaging (MRI): \$225 (see Certification Reimbursement Policy)

NCCT National Certified Phlebotomy Technician (NCPT): \$119

AMT Registered Phlebotomy Technician (RPT): \$125

Additional out-of-pocket program costs may be incurred. Additional external fees are not paid directly to Midwestern Career College (MCC). All costs are estimated, and prices are subject to change without notice or MCC's knowledge. Examples include but are not limited to the fees to cover the cost of vaccination, drug screening, physical exam, and background check, among others that may be applicable. Estimates below do not include costs for travel to and from school and clinical education site, site-specific vaccination and drug screening requirements, site-specific uniform costs, or any other additional costs imposed by clinical sites, certification,

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