Medical Imaging Program

Associate of Applied Science Degree

Application Handbook

Application Deadline: 3rd Monday in October



INTRODUCTION

Dear Medical Imaging Applicant:

The aim of this application handbook and its resources is to acquaint you with the mission, goals, vision, values, learning objectives and clinical obligations of the Medical Imaging program. This handbook will set forth the general application policies of the Medical Imaging program and to provide other information you will require.

In this program, you and your instructors will become pieces of a bigger whole. We will focus on how we can support each other, and other students, to form a community that will invite diversity, inclusion, and positivity. We will respect that everyone comes together to learn from all walks of life and various backgrounds such as race, culture, age, religion, sexual orientation, socioeconomic background, and various other social identities and life experiences. We welcome you to get involved in the conversation and encourage you to express your opinions and perspectives. This is how we start to appreciate each other's diverse backgrounds and recognize that there is strength in coming together as a unit. As important as it is to speak up, it is equally important to listen. We can achieve the goal of inclusiveness, as a community, when we encourage each other and find opportunities to absorb and reflect of what others' perspectives are as well. We will be respectful of those with different opinions and beliefs so that the conversations can be fluid and interactions can be progressive. Every day, we all have an opportunity for intellectual growth and personal enrichment. Our goal for this commitment to diversity and inclusion will be that your behavior at the college will carry to your life outside of the classroom.

We are happy to answer any questions you have and are available for any needed advisement.

We wish you well as you begin this exciting journey.

The Medical Imaging Faculty

Department Chair: Dr. Lynn Wiechert, Ed.D., R.T. (R)(CT)	847-543-2880 lwiechert@clcillinois.edu
Clinical Coordinator: Mrs. Christina Lozano, B.S., R.T. (R)(CT)(BD)(MR)	847-543-2496 <u>clozano1@clcillinois.edu</u>

MEDICAL IMAGING PROGRAM

Mission

The College of Lake County Medical Imaging Program cultivates exceptional Radiologic Technologists through equitable high-quality instruction in didactic, laboratory, and clinical settings. The Medical Imaging Program advocates independent, professional and ethical judgment, cultural and technical competence, advanced quality care, and continuous education to the diverse communities it serves.

Vision

The College of Lake County Medical Imaging Program is committed to providing a holistic education designed to meet the needs of community stakeholders.

Values

The Medical Imaging Program upholds the Values of the College of Lake County... Purpose, Integrity, Excellence, Inclusion, Unity and Compassion.

Accreditation

The Medical Imaging program is nationally accredited by the Joint Review Committee on Education in Radiologic Technology and was awarded an 8-year accreditation in spring, 2015. Information regarding program effectiveness and accreditation status can be found by visiting the JRCERT website at <u>www.jrcert.org</u>. JRCERT is located at 20 N. Wacker Drive, Suite 2850 Chicago, IL 60606-3182.

Goals and Outcomes

Goal 1- Students will use critical thinking skills

Outcome 1: Students will calculate technical factors Outcome 2: Students will demonstrate their ability to modify routine procedures

Goal 2 – Students will be clinically competent

Outcome 1: Students will differentiate between pathological processes Outcome 2: Students will modify exams based upon patient history, condition, or diversity of populations

Goal 3 – Students will be able to communicate

Outcome 1: Students will compose accurate communication for fluoroscopy examinations Outcome 2: Students will demonstrate effective communication

PROGRAM INFORMATION DISCLAIMER

This information is published for assistance only. This application handbook is not a contract between the student and the program. We have the right to make any changes (i.e. graduation requirements, fees, curriculum, etc.) without notice.

STUDENT EMAIL POLICY

The College of Lake County will send all official communications to you through your official CLC email (stu.clcillinois.edu).

NON-DISCRIMINATION POLICY

The College of Lake County (CLC) is committed to maintaining an environment free from harassment and discrimination for everyone and does not discriminate on the basis of race, sex, national origin, religion, sexual orientation, gender identity or expression, or any other protected status. CLC complies with the requirements of Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex in any educational, employment, or extracurricular activity. Sexual misconduct, as described in this policy, is a form of sexual harassment, which is a form of discrimination and is prohibited by Title IX of the Education Amendments of 1972. Domestic violence, dating violence and stalking are also prohibited conduct as defined by the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, as amended by the Violence Against Women Reauthorization Act of 2013.

American Society of Radiologic Technologist (ASRT) Practice Standards – Medical Imaging

https://www.asrt.org/main/standards-and-regulations/professional-practice/practice-standards-online

The medical imaging and radiation therapy profession comprises health care professionals identified as a bone density technologist, cardiac-interventional and vascular-interventional technologist, computed tomography technologist, magnetic resonance technologist, manmographer, medical dosimetrist, nuclear medicine technologist, quality management technologist, radiation therapist, radiographer, radiologist assistant or sonographer who are educationally prepared and clinically competent as identified by these standards.

Furthermore, these standards apply to health care employees who are legally authorized to perform medical imaging and radiation therapy and who are educationally prepared and clinically competent as identified by these standards.

The complex nature of disease processes involves multiple imaging modalities. Medical imaging and radiation therapy professionals are vital members of a multidisciplinary team that forms a core of highly trained health care professionals, who each bring expertise to the area of patient care. They play a critical role in the delivery of health services as new modalities emerge and the need for medical imaging and radiation therapy procedures increases.

Medical imaging and radiation therapy integrates scientific knowledge, technical competence and patient interaction skills to provide safe and accurate procedures with the highest regard to all aspects of patient care. A medical imaging and radiation therapy professional recognizes elements unique to each patient, which is essential for the successful completion of the procedure.

Medical imaging and radiation therapy professionals are the primary liaison between patients, licensed practitioners and other members of the support team. These professionals must remain sensitive to the needs of the patient through good communication, patient assessment, patient monitoring and patient care skills. As members of the health care team, medical imaging and radiation therapy professionals participate in quality improvement processes and continually assess their professional performance.

Medical imaging and radiation therapy professionals think critically and use independent, professional and ethical judgment in all aspects of their work. They engage in continuing education to include their area of practice to enhance patient care, safety, public education, knowledge and technical competence.

Radiography

The practice of radiography is performed by health care professionals responsible for the administration of ionizing radiation for diagnostic, therapeutic or research purposes. A radiographer performs a full scope of radiographic and fluoroscopic procedures that create the images needed for diagnosis at the request of and for interpretation by a licensed practitioner.

Radiographers must demonstrate an understanding of human anatomy, physiology, pathology and medical terminology.

Radiographers must maintain a high degree of accuracy in radiographic positioning and exposure technique. They must possess, apply and maintain knowledge of radiation protection and safety. Radiographers independently perform or assist the licensed practitioner in the completion of radiographic procedures. Radiographers prepare, administer and document activities related to medications and radiation exposure in accordance with federal and state laws, regulations or lawful institutional policy.<u>https://www.asrt.org/main/standards-and-regulations/professional-practice/practice-standards-online</u>

Professional Characteristics:

This curriculum is designed to ensure that entry-level radiographers possess the technical skills outlined in the ASRT Radiography Practice Standards. In addition, the graduate should exhibit the following professional characteristics:

- Prudent judgment in administering ionizing radiation to produce diagnostic images.
- A focus on providing optimal patient care in an evolving and diverse society.
- An understanding of the challenges associated with providing direct patient care in today's health care setting.
- The ability to work collaboratively in a dynamic healthcare environment.
- The skills to research and evaluate sources of information to be utilized in evidence-based practice.
- Stewardship over the security and confidentiality of patient medical information.
- Skills that promote lifelong learning.
- A willingness to collaborate with others in the community to promote standards of excellence in the medical imaging sciences.
- A willingness to contribute to the education and clinical skill development of radiologic science students.

Radiologic Technologist Knowledge and Skills

A radiologic technologist is a practitioner responsible for the administration of ionizing radiation to humans or animals for diagnostic or research purposes.

The art and science of radiography requires that the radiographer achieve a specific level of knowledge and skill. The radiographer must possess and demonstrate knowledge of, competency in, but not limited to, the following areas:

<u>Human structure and function</u>, including general anatomy and anatomical relationships, organ and system functions and relationships, and cross sectional anatomy in order to perform accurate radiographic examinations.

Medical ethics, including ethical and legal considerations, which impact upon the practice

<u>Medical terminology</u>, including an understanding of abbreviations, symbols, terms and phrases necessary to communicate with other professionals involved in patient care

<u>Pathology</u>, including knowledge of disease, anomalies and abnormalities that influence performance of radiographic procedures

<u>Patient care</u>, including attention to and concern for, the physical and psychological needs of the patient undergoing any radiographic examination. Additionally, it identifies the accurate assessment of life-threatening conditions and the exercise of independent judgment to implement life-sustaining actions.

<u>Positioning</u>, including proper beam-part-film alignment with respect to source of radiation, selected imaging modality, and area to be examined.

<u>Principles of radiographic exposure</u>, including appropriate selection of all technical factors to produce a diagnostic quality radiograph.

<u>Quality assurance</u>, including customer service, image interpretation, accuracy of diagnosis, and distribution of radiologists' reports

<u>Radiation physics</u>, including atomic structure, beam quality, radiation interactions, the function and operation of various generator components.

<u>Radiation protection</u>, including the use of beam restrictive devices, patient shielding techniques, accurate assessment and implementation of appropriate exposure factors as well as a working understanding of governmental regulations. The primary utilization of this knowledge is to minimize radiation exposure to the patient and the practitioner.

<u>Radiobiology</u>, including understanding of beam formation and radiation interaction with matter as it relates to genetic and somatic effects. The necessity for this knowledge and application is to respect the right of future generations to life unaffected by genetic damage brought about by unnecessary radiation exposure.

<u>Advanced Imaging Modalities</u>, including exposure to computed tomography, magnetic resonance imaging, nuclear medicine, mammography, interventional radiology, sonography and radiation therapy.

PROGRAM ADMISSION REQUIREMENTS

Associate of Applied Science Degree Code 21MI Medical Imaging Biological & Health Sciences Division

Radiologic Technologists perform radiographic examinations that create the images needed for diagnosis. Radiography integrates scientific knowledge and technical skills with effective patient interaction to provide quality patient care and useful diagnostic information (<u>www.asrt.org</u>).

Radiologic Technologists work in Radiology departments at hospitals, acute care centers, imaging centers, outpatient clinics, immediate care centers, surgical centers and doctors' offices. Duties may include performing radiographic examination in the emergency department, the operating room, the intensive care unit, the nursery and the patient rooms.

Acceptance into the program is limited. Therefore, a screening procedure is used to select the academically best qualified applicants. Preference is given to residents of CLC's district, or a community college district which does not offer a Medical Imaging program and is a member of the CAREER consortium. Students who live outside of CLC's district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program. Application deadline is the third Monday of October. If space is available in the program after the initial screening deadline, qualified students will be accepted in an order based on academic qualifications.

A student must maintain a minimum grade of "C" in each Medical Imaging course to continue in and graduate from the program.

Student Records Submitted to One-Stop Center

- A. Application to the college
- B. Official High school transcript with graduation date OR Official GED test scores-

OR

C. Official college transcripts with a graduation date and degree awarded

OR

- D. **Official** Foreign High school or college transcript evaluated by a NACES approved agency
- E. Medical Imaging Screening Form

Selection Criteria

A. High school graduate or equivalent or high school senior in last term

B. College Reading and Writing Readiness and Basic Algebra Readiness

C. CLC Cumulative GPA is 2.0 or above

D. High school chemistry or physics with a lab (1 year, C or better) OR CHM 120 or CHM 121 or PHY 121 or an equivalent course (C or better)

E. BIO 123, BIO 161 or BIO 244 or an equivalent course (C or better)

- F. One of the following Math options
 - High School Algebra (2 years, C or better) Or
 - TM02 C or better (within 18 months of completion) Or
 - CLC ALEKS Math Placement Test 30+ Or
 - Math ACT score 20+ Or
 - Math SAT score 510+ Or
 - MTH 102 C or better Or
 - MTH 105 C or better *Or*
 - \circ Completion of a higher level math course than 102 or 105 C or better Or
 - o Equivalent course from another college or university

G. MIM 110: Introduction to Medical Imaging- C or better

H. BIO 244: Anatomy and Physiology I- currently enrolled and will complete at the end of th4e fall semester of the screening year (C or better) OR completed course (C or better)

I. Applicants may take the NLN PAX exam once every 90 days (approximately three months). NLN PAX exam results that are less than 90 days between exams will not be considered. Scores used for screening into limited enrollment programs will be valid for only 3 years prior to a screening deadline. Scores older than 3 years will not be considered for screening. Visit www.nlnonlinetesting.org for available test dates and times.

J. Must be eighteen (18) years of age by midterm of the fall semester following the screening deadline Students must earn a minimum grade of "C" in each Imaging course to continue in and graduate from the program.

NOTE: A student is not officially accepted into the program until they have received an official acceptance letter from the screening committee and admissions office. You will NOT be considered for screening unless a Medical Imaging Screening form is submitted.

Waitlist: A waitlist is kept for any drops that may occur between the screening deadline and the first day of class in MIM 111. The waitlist DOES NOT carry over into the next screening. All applicants we be re-evaluated.

Technical Performance Standards

Medical Imaging is a practice of discipline with cognitive, sensory, affective, and psychomotor performance requirements. Based on those requirements and [the State of Illinois licensing requirements], a list of "Performance Standards" has been developed. Each standard has an example of an activity or activities that a potential student will be required to perform while enrolled in the radiography program. Please note that these examples are not all inclusive.

Issue	Standard	Examples of Required Activities (Not all inclusive)
Visual	Visual ability sufficient for observation and assessment necessary in the operation of equipment and care of patients.	Visualize x-ray collimator centering light and identify its center. Observe the patient in order to assess the patient's condition and/or needs from a distance of at least 20 feet. Can see numbers, letters, calibrations, etc., of varying sizes located on equipment utilized by a radiographer.
Hearing	Auditory abilities sufficient to monitor and assess patient needs, and to provide a safe environment.	Hear a patient talk in a normal tone from a distance of 20 feet. Hear monitor alarm, emergency signals, and cries for help.
Tactile	Tactile ability sufficient for patient assessment and operation of equipment and care of patients.	Perform palpation, tactile assessment, and manipulation of body parts to insure proper body placement and alignment. Manipulate dials, buttons, and switches of various sizes.
Mental	Mental ability sufficient for patient assessment and operation of equipment and care of patients.	Be able to visually concentrate and focus attention, thoughts, and efforts on patients and equipment for varying periods of time. Be able to respond to patients' changing physical conditions.
Environmental Requirements	Physical health sufficient enough to be able to tolerate certain conditions present in the clinical setting.	Be able to tolerate risks of discomforts in the clinical setting that require special safety precautions, additional safety education, and health risk monitoring (i.e., ionizing radiation), working with sharps, chemicals, and infectious disease. Students may be required to use protective clothing or gear such as masks, goggles, gloves, and lead aprons.
Communication	Communication abilities sufficient for interaction with others in verbal and written form.	Effectively communicate to the patient in order to converse, instruct the patient, relieve anxiety, gain their cooperation during procedures, understand the patient when they are communicating symptoms of medical emergency. Read the patient's medical chart and/or physician's orders. Legibly write patient history. Document own actions and patient responses as indicated.

Mobility	Physical abilities sufficient to move from room to room and maneuver in small spaces.	 Assist all patients, according to individual needs and abilities, in moving, turning, transferring from transportation devices to x-ray table, etc. Be able to push, pull, and lift a minimum 50 lbs. Push a stretcher and/or wheelchair without injury to self, patient, and others. Push a mobile x-ray machines from one location to another, including turning corners, getting on and off an elevator, and manipulating it in a patient's room or surgery.
Motor Skills	Gross and fine motor abilities sufficient to provide safe effective patient care.	Manually move the x-ray tube and position the tube at various angles and heights up to 7 feet. Accurately draw up sterile contrast media and other solutions without contaminating the syringe and/or needles, etc. Physically be able to administer emergency care including performing CPR. Place cassettes (image receptors) in Bucky trays and properly manipulate all locks. Be able to stand for periods as long as 2-hours wearing lead
Critical Thinking	Critical thinking ability sufficient for safe, clinical judgment.	 anrons and to walk a distance of 5 miles during a normal work Identify cause-effect relationships in clinical situations. Evaluate radiographs to ascertain that they contain proper identification and are of diagnostic value. Select exposure factors and accessory devices for all radiographic procedures with consideration of patient size, age, and extent of disease. Assess patient's condition and needs from a distance of at least 20 feet. Initiate proper emergency care protocols, including CPR, based on
Interpersonal Behavioral and Social Skills	Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	Establish rapport with patients, families, and colleagues. Allow mature, sensitive, and effective relationships with patients and fellow workers (interpersonal skills). Tolerate physically taxing workload. Function effectively under stress. Adapt to changing environments (flexible schedules, emergency conditions). Display compassion, professionalism, empathy, integrity, concern for others, and interest and motivation.

Developed by St. Petersburg College Radiography Program: Permission granted to CLC.

The American with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 and College of Lake County policy prohibits discrimination against individuals with disabilities. One of the purposes of this document is to ensure that students are aware of the requirements of this program and acknowledge their understanding of the program requirements. Students who have a disability and are in need of accommodations or modifications must contact the

Office for Students with Disabilities ("OSD"). The OSD, after consultation with the Program Director, will determine whether or not any reasonable accommodations or modifications can be provided.

TRANSFER CREDIT FROM OTHER IMAGING PROGRAMS

Students who transfer credit from other accredited college based Medical Imaging programs will submit an official transcript and syllabus for each course for which they request credit. The program coordinator will determine the transferability of the Medical Imaging courses from information supplied. If equivalency cannot be determined, students may challenge the course(s) for credit at the discretion of the department chair.

Students who transfer from hospital, vocational schools or armed forces programs for which course credit equivalency is not immediately discernible may challenge some didactic Medical Imaging courses at the discretion of the department chair. Clinical records will be evaluated and credit may be granted at the discretion of the program coordinator for some clinical courses based upon college course equivalency.

EXPENSES

- A. Current tuition costs are found in the college catalog.
- B. The latest editions of Medical Imaging texts are used. Costs will vary approximately \$600.
- C. Current laboratory fees are found in the class schedules of each semester.
- D. Uniforms and lab coats will need to be purchased for clinical.
- E. Transportation costs are the responsibility of the student.
- F. A urine drug screening (approximately \$34.23), a federal background check (approximately \$33.65), immunizations (varies) and a physical are required to attend clinical. The drug screening and background check will be conducted through the company Hire Right. Immunizations can be completed at your doctor's office and/or the CLC health center. These requirements are discussed in new student orientation. Please note that affiliation agreements with clinical facilities does require the drug screening, TB test and flu shot to be completed annually.
- G. Upon graduation there will be additional expenses including \$200 to take the American Registry of Radiologic Technologists and \$120 for Illinois state licensure.

PROGRAM CURRICULUM

The student has the responsibility for enrolling in the appropriate courses to meet all program requirements. Students are encouraged to consult with the academic advisors assigned to the health career programs prior to registration for courses. The academic advisors will provide information about program requirements and assist with course selection and class schedules. During the program the student should meet with the program director to insure suitability of courses chosen to meet the program requirements and to insure that prerequisite courses are taken at the proper stage in the course sequence.

The curriculum is designed into eight week modules alternating between clinical and didactic/laboratory education. Didactic education will be offered through blended learning with no more than 50% online.

Spring Semester One:	
BIO 245- Anatomy & Physiology II	4 credits
Total	4 credits
Summer Session One:	
MIM 111- Anatomy and Positioning I	5 credits
Total	5 credits
Fall Semester One:	
MIM 114- Clinical I	3 credits
MIM 113- Anatomy and Positioning II	5 credits
MIM 116- Advance Rad Procedures	2 credits
ENG 121- English Composition	3 credits
Total	13 credits
Winter Intercession One:	
MIM 115-Clinical II	1 credit
Total	1 credit
Spring Semester Two	
MIM 115- Clinical II	3 credits
MIM 112- Principles of Rad Exposure	2.5 credits
MIM 210- Tech aspects of Pt. Care	2 credits
CMM 121/CMM 128/CMM 123	3 credits
PSY 121- Psychology	3 credits
Total	13.5 credits
End of Spring/Before Summer Intercession	
MIM 212- Clinical III	1 credit
Total	1 credit
Summer Session Two	
MIM 212- Clinical III	<u>3 credits</u>
Total	3 credits
Fall Semester Two	
MIM 211- Imaging Equipment	5.5 credits
MIM 216: Computed Imaging	2 credits
MIM 215: Clinical IV	3 credits
CMM 127: Intercultural Comm.	<u>3 credits</u>
Total	13.5 credits

Winter Intercession Two	
MIM 215- Clinical IV	<u>1 credit</u>
Total	1 credit
Spring Semester Three	
MIM 214: Advanced Topics in Rad	3 credits
MIM 275: Intro to Sectional Anatomy	1 credit
MIM 219: Radiography Seminar	2 credits
MIM 271: Clinical V	3 credits
HUM 127: Critical Thinking	3 credits
Total	12 credits
PROGRAM TOTAL	67 credits

American Registry of Radiologic Technologists -ARRT

STANDARD OF ETHICS

https://assets-us-01.kc-usercontent.com/406ac8c6-58e8-00b3-e3c1-0c312965deb2/82777f8ba85d-4d6b-8efc-1b352310eabc/arrt-standards-of-ethics-2020.pdf

STANDARDS OF CONDUCT

CLC students will comply with the STANDARDS OF CONDUCT OF CLINICAL AFFILIATES, PROFESSIONAL BEHAVIOR STANDARDS OF THE PROGRAM, and THE STUDENTS RIGHTS AND RESPONSIBILITIES OF CLC.

STANDARDS OF CONDUCT - PERSONAL AND PROFESSIONAL LEGAL, MORAL AND ETHICAL BEHAVIORS

A student enrolled in an Imaging Program is expected to display conduct in accordance to the legal, moral and ethical standards of the radiology profession and the community.

Each student is accountable for individual behavior and is expected to act in a responsible, mature manner that reflects the qualities of honesty, integrity, courtesy, reliability, and responsible interpersonal skills. Profanity, derogatory comments, and emotional response which inhibit learning or effective functioning will not be permitted, and may result in a lowering of a course grade.

Harassment based on gender, sexual orientation, race, color, religion, national origin, ethnicity, veteran status or disability will not be permitted.

Behavior must not interfere with student/staff/faculty/patient relationships.

Honesty is expected of all medical imaging students in the lecture, laboratory and clinic. Acts of lying, cheating, plagiarism, forgery, alteration and/or falsification of clinical documents, written work, or academic records will not be permitted.

Failure to comply with the above legal, moral and ethical standards may result in lowering of course grade, failure of the course, dismissal from the course and/or possible dismissal from the program. Such conduct is in violation of the College of Lake County Code of Student Conduct as described in the CLC Student Handbook.

STANDARDS OF CONDUCT – STUDENTS RIGHTS AND RESPONSIBILITIES

It is the responsibility of the College of Lake County (CLC) to provide equal access to its educational opportunities and to prevent interference with those educational opportunities by maintaining an orderly, civil, and safe educational environment.

When students choose to attend CLC they accept the Rights and Responsibilities Procedures as members in the college's academic and social community. Each person has the right and ability to make personal decisions about his or her own conduct. Just as importantly, each person has the responsibility to live with the consequence(s) of his or her decision making.

The Student Rights and Responsibilities Procedures describes student rights as well as examples of misconduct inconsistent with the academic environment at CLC. It lists procedures to respond to such behaviors, and details possible sanctions that are intended to educate and safeguard members of the college. If you have any questions about this Policy, please contact the Office of the Vice President, Student Development.

http://dept.clcillinois.edu/ssd/StudentRightsandResponsibilitiesProcedures.pdf

Clinical Obligations

MALPRACTICE INSURANCE

The college secures professional liability insurance for each student. This insurance protects the student in the event of litigation for malpractice only and is not a medical insurance policy. It does not cover a student who may work in institutions outside of scheduled clinical education time.

MEDICAL INSURANCE

Medical insurance is the responsibility of the student. A student injured while on clinical assignment is NOT covered by the workman's compensation system of the hospital and is therefore responsible for all expenses for emergency medical treatment at the clinical education center. Each student will show proof of medical insurance prior to entering the clinical setting and upon expiration of medical insurance; the student will show new proof of insurance.

CPR CERTIFICATION

Certification in CPR must be obtained prior to entering the clinical setting. One must be certified in advanced CPR for professionals which will include training on the AED. Each student must show proof of certification prior to entering the clinical education setting. Upon expiration, the student will show new proof of certification.

STATEMENT ON TRANSPORTATION

You will be responsible for your traveling accommodations to the college and to the clinical affiliations. You will be required to travel the main hospital campus and their off sites.

STATEMENT ON DRUG TESTING AND CRIMINAL BACKGROUND CHECKS

Students enrolled in the program are required to undergo a background check and a urine drug screen (annually) prior to attending their clinical affiliation. The results of the background check and drug screen may result in the student losing his/her seat in the program. The costs are borne by the student.

IMMUNIZATIONS

Health Requirements for Imaging Students

All Imaging students must complete the following requirements and submit appropriate records to the Health Center prior to the beginning of the first semester in which you will be taking a course with a clinical. (You will not be permitted to attend clinical unless all of the following requirements are completed.) Students new to the program and/or college and those whose records require updating must obtain clearance from the CLC Health Center confirming completion/updating of your record. Please contact the Health Center for hours of operation. The phone number is (847) 543-2064; Fax number is (847) 543-3064. Health Passports will be provided to the students upon completion of all health requirements. Completed Health Passports are to be given to the department chair prior to the first clinical course or deadline given by the department chair. It is the responsibility of the student to be aware of the status of your health record and to know if you need an update on your T.B. skin test/X-ray, and whether your immunization requirements have been met. Therefore, read the following requirements carefully. Remember, you will NOT be permitted in the clinical affiliation unless your computer file shows clearance from the College Health Center. Requirements • Completed CLC Student Health Record form (obtained from the CLC Health Center). • Physical exam required either by an M.D. or Nurse Practitioner (obtain form from the CLC Health Center).

Tuberculosis (TB) – Once considered a disease of the past, tuberculosis is making an unwelcome comeback. This communicable and potential deadly respiratory disease has no acceptable vaccine to date. However, we are able to test your immune system to see if you have been exposed to the disease in the past. Many people are exposed to the disease without knowing it, for example being in a theater or restaurant near someone who is infected and coughing. You will be required to do a "two step Mantoux TB skin test" to see

if you have been exposed to the disease and don't know it. If the initial skin test result is negative, we will repeat the test one-week later to see if your immune system has been triggered or sensitized. If the second test is negative, you will need an annual one-step test to check for exposure during the past year. You may get this test here at the Health Center, the TB Clinic, or the health care institution where you work. Please bring a copy of the tests showing the 2-step and all subsequent annual tests if not done at CLC. o If either test is positive, you will be sent to the Lake County Tuberculosis Clinic in Waukegan and have a chest x-ray and be checked for the presence of active disease. If necessary, they will give you medication for you to take up to 9 months on a daily basis. When you finish that course of treatment, you should be protected against the disease becoming active. Since your immune system will always show a positive response, follow-up tests will consist of periodic x-rays and/or a screening questionnaire done on an annual basis or as needed. There are now fees for their services. Please note many physicians do not understand the two-step system but it is a legal requirement. (TB two-step is a nine day process.) So, PLEASE have your two-step skin test done at the Health Center, unless you already have had one done at a health care institution. If so, bring us a copy of that tests showing dates given, dates read and the results for each step. The cost of the TB Test is \$7 per step if done at the CLC Health Center. You can also have the test done at the Lake County Tuberculosis Clinic (call them for pricing). o We will also accept lab results for either a T-Spot blood test or Quantiferon Gold blood test that tests for TB. CLC Health Center offers a T-Spot blood test for a cost of \$51. If your physician does the lab test, bring a copy of those results to the Health Center for your record. o To update the health record, second year students will need to have a new one-step Mantoux skin test.

Urine Drug Screen – Urine drug screens are required yearly for the nursing program. We have a contractual agreement with Hire Right to do the 9-panel drug screen. You will receive notification and details of the screening in advance. You will follow the policies and procedures set forth.

Varicella Titre – This is a blood test to show immunity to varicella (chicken pox). If you are not immune, you must receive the two-part varicella vaccination, given 4-8 weeks apart. You will be cleared to participate in clinical activities after receiving the first dose up to the date the second dose is due. The Health Center does not carry the varicella vaccine – you must get the vaccine through your primary healthcare provider. If you do not have a primary healthcare provider, many of the "minute clinics" in the Walgreens and CVS pharmacies can administer the vaccine. You may not go to your clinical sites if you develop a rash after either vaccination – doing so can result in infection in people with compromised immune systems. If you cannot supply written documentation of having had a two-part varicella vaccination, a written report that you had the disease does not excuse you from getting the blood titre. If done here at CLC Health Center, the cost of the titre is \$40.00. After payment for the test, if necessary we can print a letter for your insurance company so that you can obtain reimbursement. If your primary healthcare provider does the test, bring a copy of the results for your record in the Health Center. VERY IMPORTANT: If you require the two-part varicella vaccine, you must make sure you have completed the required

two-step TB skin test before getting the varicella vaccination.

Measles (Rubeola) – You must show evidence of immunity to Rubeola with a positive blood titre. The cost of the titre is \$33 if done at the CLC Health Center. If you need a booster dose to achieve immunity, there is a cost of \$74 for the vaccination if done at the CLC Health Center. If you need the 2 recommended doses, the immunizations are spaced one month apart. If your physician does the lab test, bring a copy of those results to the Health Center for your record. • Mumps – You must show evidence of immunity to mumps with a positive blood titre. A titre can be drawn at the same time as other blood tests. The cost of the titre is \$48 if done at CLC Health Center. If you need a booster dose, it can be given at the CLC Health Center at a cost of \$74. If your physician does the lab test, bring a copy of those results to the Health Center at a cost of \$74. If your physician does the lab test, bring a copy of those the lab test, bring a copy of those results to the Health Center for your record.

Rubella (German Measles) – You must show evidence of immunity to rubella with a positive blood titre. The cost of the titre is \$15 if done at the CLC Health Center. Many women had the test done if they were pregnant and can get a copy of the results from their obstetrician. If you need a booster dose, it can be given at the CLC Health Center at a cost is \$74. If your physician does the lab test, bring a copy of those results to the Health Center for your record.

Hepatitis B – You must have evidence of a series of 3 vaccinations against Hepatitis B and a titre showing immunity. If you need to have the Hepatitis B series, you will need a Quantitative Hepatitis B Surface Antibody titre drawn 1-2 months after the 3rd vaccination. If the titre comes back showing no immune system response, the series will be repeated and the titre redrawn. Hepatitis B vaccinations cost \$44 each if done at the CLC Health Center. The cost of the titre is \$33 if done at the CLC Health Center. You may sign a declination form but the risks of an infection with Hepatitis B are extremely serious; Hepatitis B is four times more infectious than HIV and Hepatitis B can be prevented. If your physician does the lab test, bring a copy of those results to the Health Center for your record.

Influenza – You must show evidence of having a vaccination to the current influenza virus as required. The clinical sites want to minimize communicable disease exposure to their clients. Contrary to most rumors, the vaccination is made of noninfectious viral protein particles and can NO longer give you the "flu". CLC Health Center offers low cost flu shots. Call for price.

Tetanus/Diphtheria/Acellular Pertussis (TDaP) – You must have evidence of an immunization to TdaP within the past 10 years. Please bring a copy of the record to attach to your CLC health record. The cost is \$40 for a TdaP vaccination if done at the CLC Health Center.

Immunizations: All clinical sites require evidence that you received all required immunizations including the influenza vaccine. Exemptions may be possible as long as they are congruent with Illinois recommendations/law. Lack of compliance may affect your participation in the clinical experience. The imaging program must comply with the clinical

site requirements, which are outlined in the clinical contractual agreements. A copy of your health record will be maintained in the Health Center. If you ever need a copy of your immunizations or lab work, you can get one by completing, sending or faxing a signed written request to the Health Center. They need to know it is YOU making that request because ALL records, visits, or information are considered confidential. Because you go to several different institutions for your clinical experience, the Health Center would like you to sign a "Universal Request for Copies" form at this time. This will allow them to copy the parts of your health record for those institutions in which you have clinical experience that will verify your TB skin testing, your immunizations and associated titres. If you need copies for other reasons, you will be asked to fill out a separate request at that time.

PROGRAM GRIEVANCE PROCEDURES

Dr. Wiechert and Mrs. Lozano have an open door policy for any questions, concerns, and/or issues that may arise. A report log is kept by the department chair. The log will be reviewed for recurring events.

Equitable learning opportunities for all students

Standard One - Objective 1.2 of the JRCERT Standards (PDF)

Mammography experience

The medical imaging program sponsored by the College of Lake County has revised its policy, effective January 1, 2017, regarding the placement of students in mammography clinical rotations to observe and/or perform breast imaging. (Additionally, the policy may be applied to any imaging procedures performed by professionals who are of the opposite gender of the patient).

Under the revised policy, all students, male and female, will be offered the opportunity to participate in mammography clinical rotations. The program will make every effort to place a male student in a mammography clinical rotation if requested; however, the program is not in a position to override clinical setting policies that restrict clinical experiences in mammography to female students. Male students are advised that placement in a mammography rotation is not guaranteed and is subject to the availability of a clinical setting that allows males to participate in mammographic imaging procedures. The program will not deny female students the opportunity to participate in mammography rotations if clinical settings are not available to provide the same opportunity to male students.

The change in the program's policy regarding student clinical rotations in mammography is based on the sound rationale presented in a position statement on student mammography clinical rotations adopted by the Board of Directors of the Joint Review Committee on Education in Radiologic Technology (JRCERT) at its April 2016 meeting. The JRCERT position statement is included as Addendum A to the program's policy and is also available on the JRCERT Web site, www.jrcert.org, Programs & Faculty, Program Resources.

PREGNANCY POLICY

During the first semester in the medical imaging program, all students will be taught basic radiation protection procedures. These instructions will include enough background so that female students will be able to understand the possible biological risks of ionizing radiation to the embryo and fetus. Female students shall read the United States Nuclear Regulatory Commission (NRC) guide #8.13 on possible biological risks to the fetus and embryo and sign an acknowledgement form stating that they understand these risks. NRC guide #8.13 and the acknowledgement form are found in the appendices of the MIM handbook. The signed forms will be placed in the female student's CLC files.

- 1. Students may voluntarily inform the department chair and the radiation safety officer in writing should a pregnancy occur during the educational period. The pregnancy then becomes declared. Student may rescind pregnancy declaration at any time in writing to the department chair.
- 2. The possible risks to the embryo and fetus shall be reviewed and the review documented and signed by the radiation safety officer and the student. The student will then be referred to the department chair for discussion and documentation of pregnancy options.
- 3. The student will decide and the program director document one of the following options:
 - a. A leave of absence may be taken until the birth of the child. All medical imaging grades will be recorded as withdrawn (W) if the student grades are acceptable at the time. This will permit the student to return with no penalty. Student acceptance to clinical facilities depends upon availability of sites.
 - b. The student may continue in the program upon the written recommendation of the student's obstetrician or prenatal agency which has the student under its care. In this case, two badges will be used, one worn at the collar and on top of the apron during fluoroscopy and one worn on the belt and under the apron during fluoroscopy to record the student exposure and the fetal exposure respectively. Should recorded fetal exposure increase to 500 mrem or be received at a rate greater than 50 mrem per month at any time during pregnancy, the student will be required to take a leave of absence. See (1). All course objectives and rotations shall be equivalent to any and all students enrolled in this particular course. Adherence to policies 1-4 should eliminate almost all fetal exposure. Other counseling on radiation protection procedures shall be done as needed.
 - c. The student may terminate the program. The college medical imaging program will counsel students, but has no responsibility for the decisions made by students regarding educational choices if they become pregnant during the educational period.

CLINICAL AFFILIATIONS

The clinical education the student receives is equally as important as the courses taken on the CLC campus. The student will receive most of his/her clinical education at the same medical affiliation. The program guarantees each student an initial clinical site. Should a student be dismissed from that site, the student must find an acceptable alternate site to complete the required clinical education courses. If a student wants to transfer sites, it must be agreed upon by the college, current clinical education facility, and the new clinical education facility. Please note that the <u>clinical commitment</u> is M, T, W, R for 8.5 hours each day. An approximate shift of 8am-4:30pm. You will choose from the following hospitals as your home site. Under each hospital site is the list of the immediate care centers or other hospital(s) that you will rotate through for your clinical experiences. The following is a list of clinical affiliations.

Northshore University Health System

Highland Park Hospital 777 Park Ave. West Highland Park, IL 60035 847-480-3801 Clinical Instructor 847-480-4557 or 847-480-2817 Imaging Department

Gurnee Acute Care Center 7900 Rollins Rd. Gurnee, IL 60031 847-356-3985

Lincolnshire Immediate Care Center 920 Milwaukee Ave. Lincolnshire, IL 60069 847-383-2674

Skokie Hospital 9600 Grosspoint Road Skokie, IL 60076 847-933-3585

Advocate Health System

Good Shepherd Hospital 450 W Hwy 22 Barrington, IL 60010

Advocate Outpatient Lake Zurich 350 Surryse Rd. Lake Zurich, IL 60047

Advocate Outpatient Crystal Lake 525 Congress Parkway Crystal Lake, IL 60014

Condell Medical Center 801 S. Milwaukee Ave. Libertyville, IL 60048 Condell Imaging Center 1435 Hunt Club Road Gurnee, IL 60031

Northwestern Medicine

Lake Forest Hospital 660 N. Westmoreland Lake Forest, IL 60045

Glenview Outpatient Center 2701 Patriot Blvd. Glenview, IL 60026

Northwestern Grayslake 1475 E. Belvidere Rd. Grayslake, IL 60030

Vista

Vista Medical Center East 1324 N. Sheridan Rd. Waukegan, IL 60085

Vista Surgery Center 1050 Red Oak lane Lindenhurst, IL 60046

Vista Imaging Center 95 North Greenleaf Suite B Gurnee, IL 60031

Veterans Affairs

James A. Lovell Federal Health Care Center 3001 Greenbay Rd. North Chicago, IL 60064

Froedtert South

Pleasant Prairie Hospital 9555 76th Street Pleasant Prairie, WI 53158

Kenosha Hospital 6308 8th Ave. Kenosha, WI 53143 Pleasant Prairie Clinic 10256 Old Green Bay Road Pleasant Prairie, WI 53158

Prairie Ridge Clinic 9697 St. Catherine's Drive Suite 200 Pleasant Prairie, WI 53158

Somers Clinic 3400 Market Lane Kenosha, WI 53144

Midwestern Regional Medical Center

Midwest Regional Medical Center 2520 Elisha Avenue Zion, IL 60099