



Nuclear Medicine Technology Policies & Procedures Student Handbook

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DISCLAIMER

Molloy University, the Department of Allied Health Sciences, and the Nuclear Medicine Technology Program reserve the right to make policy and procedure changes at any time. Such changes will be distributed for insertion into the appropriate section of the Student Handbook. All students enrolled in any courses sponsored by the Program must comply with such changes at the time specified.

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TABLE OF CONTENTS

Table of Contents	3-7
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SECTION I

ACADEMIC POLICIES	8
Nuclear Medicine Technology Faculty and Staff	9-10
Introduction	11
Mission Statement Molloy University	11
Vision Statement Molloy University	11
Goals of Molloy University	11
Mission of the Nuclear Medicine Technology Program	11
Student Learning Outcomes-	11-12
Goals of the Nuclear Medicine Technology Program	12
Objectives of the Nuclear Medicine Technology Program	13
The Student Handbook	13
Accreditation	14
General Admissions Requirements	15
Entrance Exams	15
General Admissions Application Requirements	15
Transfer Students/Credits	16-17

Advanced Placement - Pregnancy Policy	18
Admissions and Progression Requirements	18
Grading Criteria for Progression	20
Priorities for Student Grade Below B- in Nuclear Medicine Technology Courses	20
Health Requirements\Pregnancy Policy	19
Title IX	20
Non-Discrimination Policy	20-21
ADA and Rehabilitation Act	22
DSS/STEEP Disability Support	22
ACE- Academic Enrichment Program	22
FERPA	23-24
Statement of Academic Integrity	22-23
Honor Pledge	25-26
Academic Infractions Subject to Disciplinary Action	26
Due Process Procedure in Academic Areas	26
Procedure	26-27
Rights of Students in disciplinary proceedings	28-29
Formal Hearing	29
Appeal	29
Disciplinary Dismissal/Disciplinary Suspension	29
Policy Concerning Grade Appeal	29-30
Attendance\Severe Weather Policy	35-36
Grading Policy	36
Remediation	37

Faculty Advising and Office Hours	38
Membership in Professional Organizations	38
Intellectual Property	38
Student Activities	38
Student Awards	38
Professional Societies	39
Summer Clinical Coursework	39
Nuclear Medicine Technology BS Degree Course Requirement	39-41
Nuclear Medicine Technology Course Descriptions	41-46

SECTION II

STANDARDS OF CLINICAL BEHAVIOR AND PRACTICE

Radiation Safety Policy	48
Introduction	49
Physical Examination and Immunization Records	49
/CASTLEBRANCH	49
Student Health Insurance	50
Student Injuries or Illness While Attending Clinical	50
Non-Employee Policy	50
BLS Certification/CASTLEBRANCH	50
Nuclear Medicine Technology in a Culturally Diverse World	50-51
The Clinical Preceptor Model	51
Responsibilities of the Nuclear Medicine Technology Program	52
Responsibilities of the Nuclear Medicine Technology Student	52
Venipuncture and Radiopharmaceutical Policy	53-54

Physical Forms/CastleBranch	49
Latex Allergy Form-CastleBranch	49
Physical Form – Flu Vaccine	50
Drug Testing Authorization & Consent Form	51-52
Nuclear Medicine Technology Program Guidelines	55
Clinical Attendance Policies\Severe Weather Policies	55-56
General Statement on Conduct	56
Clinical Dress Code - \$25 per lost badge	57
Non-Compliance with Dress Code	57
Additional Student Responsibilities	57-58
Clinical Rotations- Documentation and Evaluation	
Confidentiality - HIPAA	60
Social Media - Electronics Use - No Texting or Cell Phone Use	60
Smoking Policy	60
Transportation to Clinical Affiliates	60
Statement of Ethics and Professional Conduct	60
Clinical Affiliate List	62-68
Clinical Education Eligibility	68
Policies Governing Clinical Education Scheduling	68
Clinical Site Assignment	68
Statement to Clinical Affiliates	69
Hospital Job Actions or Strikes	69
Jury Duty	69
Incident Reports at a Clinical Affiliate Site	69
Immunizations/Infectious Diseases	70
Procedure for Filing Grievance by Faculty	70

APPENDICES

A. Patients' Bill of Rights	72
B. Competency List	84-109
C. Code of Ethics	74
D. Technical Standards for the Nuclear Medicine Technologist	75
E. Policy on Clinical Education Assignments	76
F. Policy Regarding Advanced Placement, Transfer of Credit, and Credit for Experiential Learning	77
G. Policy on Service Work for Students	78
H. Permission to Release Information	79
I. Permission to Release Registry Examination Scores	80
J. Confidentiality Policy	81
K. Documentation of Clinical Education Requirements for Students	82
L. Acknowledgment of Receipt, Understanding, and Agreement to Remain in Compliance with the <i>Molloy University Nuclear Medicine Technology Policies & Procedures</i>	83
M. Clinical Objectives (Competencies) Student Evaluation	84-109
N. Library List	110-123

SECTION I

ACADEMIC POLICIES

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INTRODUCTION

To meet the challenges of the present and future of health care, the nuclear medicine technologist must function competently in an expanding multi-faceted role. Recent trends and advances in the delivery of health care indicate that the nuclear medicine technology curriculum must provide the student with opportunities to develop skills in multiple areas of patient care. Of equal importance is the need for the graduate to understand the relationships of various imaging specialties to patient care. Graduates can pursue a career in a variety of nuclear medicine areas, including clinical practice, education, management, sales, and research.

MISSION STATEMENT OF MOLLOY UNIVERSITY

Molloy University, an independent, Catholic University, rooted in the Dominican tradition of study, spirituality, service, and community, is committed to academic excellence with respect for each person. Through transformative education, Molloy promotes a lifelong search for truth and the development of ethical leadership.

VISION STATEMENT OF MOLLOY UNIVERSITY

Molloy University, built on Catholic and Dominican characteristics of intellectual life, study and the search for truth, is committed to academic excellence through a value-centered, holistic education in liberal arts and professional programs. Molloy University is dedicated to fostering a diverse and inclusive learning community, which focuses on respect for each person and leadership through service.

GOALS OF MOLLOY UNIVERSITY

Molloy University is committed to:

- Being Catholic and Dominican in philosophy and outlook
- Student-centered learning
- Academic quality
- Leadership through service
- Engagement with the wider community
- Maintaining stewardship

MISSION OF THE NUCLEAR MEDICINE TECHNOLOGY PROGRAM

The Nuclear Medicine Technology Program's mission is to develop competent and professional nuclear medicine technologists who, by virtue of theory and practice, are proficient in all facets of nuclear medicine, are capable of passing the certification examination and have a high degree of adaptability in a changing technology.

STUDENT LEARNING OUTCOMES:

SLO #1: The student will demonstrate effective and accurate oral communications of information in both the didactic and clinical setting concerning the practice of nuclear medicine

SLO #2: The student will demonstrate knowledge and competency in the clinical application of imaging systems, instrumentation, quality control procedures, and radiopharmaceuticals

SLO #3: The student will demonstrate knowledge of radiation protection precautions, procedures and ALARA

SLO #4: The student will demonstrate didactic and clinical knowledge of the full variety of diagnostic and therapeutic nuclear medicine procedures.

SLO #5: The student will demonstrate knowledge appropriate patient care.

SLO #6: The student will provide patient care in an ethical and compassionate manner

SLO #7 The student will demonstrate knowledge of Computed Tomography physics and imaging and be able to perform the related clinical requirements in PET/CT, SPECT/CT and CT to qualify for the NMTCB CT Examination

GOALS OF THE NUCLEAR MEDICINE TECHNOLOGY PROGRAM

The goals of the Nuclear Medicine Technology Program are to familiarize students with the theories and practices concerned with the nuclear medicine area of a hospital or other clinical facility. Introduce students to the most recent imaging systems and radiopharmaceuticals and guarantee their competency in their use. Equip students with the knowledge base to perform proper diagnostic studies on patients and thus contribute to patient well-being. Ensure student awareness of the importance of ethics, self-evaluation, and cooperation in the health care field. Prepare students to qualify and sit for examinations leading to certification, registration, and licensure.

The didactic, laboratory, and clinical components of the Nuclear Medicine Technology Program curriculum within the Department of Allied Health Sciences of Molloy University provide an environment for students to develop and master; knowledge, insight and skills required producing and delivering optimal diagnostic images and therapies. Effective communication techniques are required to interact successfully with both patients and other members of the health care team. Self-assessment skills are required to correctly evaluate the quality and quantity of their work. Critical thinking and problem-solving skills are required to meet the challenges of the dynamic healthcare environment; and values for commitment to life-long learning, public education, and involvement in their professional organizations.

OBJECTIVES OF THE NUCLEAR MEDICINE TECHNOLOGY PROGRAM

The objectives of the program are to prepare a nuclear medicine technology professional who will:

- Pass the national registry examination(s)
- Produce images providing optimal information obtained with appropriate techniques
- Apply appropriate protection practices toward the patient, self, the health care team, and the public
- Apply critical thinking and problem solving in making decisions about imaging exams
- Contribute to the physical and psychological comfort of the patient under the guidelines of the Patients' Bill of Rights (Appendix A)
- Adhere to the Code of Ethics in professional practice (Appendix C)
- Assume responsibility for professional development
- Demonstrate communication ability by establishing rapport with patients and the healthcare team

THE STUDENT HANDBOOK

This Student Handbook on Academic Policies and Clinical Education serves as a guide for students enrolled in the Nuclear Medicine Technology Program within the Department of Allied Health Sciences at Molloy University.

The Molloy University student is required to uphold a high standard of academic and nonacademic conduct. That standard is presented in this document and will be upheld by the Department of Allied Health Sciences. Academic and nonacademic misconduct at Molloy University is subject to disciplinary action.

This Student Handbook is given to matriculating students during orientation. The Nuclear Medicine Technology Program will obtain documentation of the receipt and review of the Student Handbook.

Each student will be responsible for maintaining his/her knowledge of the information contained in this Student Handbook.

ACCREDITATION

The Molloy University Nuclear Medicine Technology Program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT) [www.jrcnmt.org] located at 820 W. Danforth Road # B1, Edmond, OK 73003, (405) 285-0546.

The program is also approved by the New York State Department of Education. Middle States Commission on Higher Education Accreditation accredits Molloy University.

Graduates are eligible to take the American Registry of Radiologic Technology (ARRT)(N) and the Nuclear Medicine Technology Certification (CNMT) examinations to become certified Nuclear Medicine Technologists.

Graduates will need to apply to the New York State Department of Education to obtain a license to practice as a Nuclear Medicine Technologist in New York State. Please Visit: <https://www.health.ny.gov> for further information.

GENERAL ADMISSIONS REQUIREMENTS

FRESHMEN

Entrance requirements include graduation from high school or equivalent* with 20.5 units, including the following:

<u>English</u>	<u>4</u>
<u>Foreign Language</u>	<u>3</u>
<u>Mathematics</u>	<u>3</u>
<u>Social Studies</u>	<u>4</u>
<u>Science</u>	<u>3</u>

Nuclear medicine Technology majors must have biology, chemistry, and mathematics.

* Applicants who apply with a General Equivalency Diploma (GED) must submit an official high school transcript, as well as a copy of their GED Score Report.

ENTRANCE EXAMINATIONS

Entrance examinations should include one of the following tests:

- Scholastic Achievement Test (SAT). Information may be obtained through the high school guidance office or by writing to the University Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540.
- American University Test (ACT). Information may also be obtained through the high school guidance office or by writing American University Testing Program, P.O. Box 168, Iowa City, Iowa 52250.

ADMISSIONS APPLICATION PROCEDURE

Obtaining an application form from the Office of Admissions and carefully following the directions on the application initiate the application procedure. Upon receipt of high school credentials, SAT/ACT scores (freshmen only), the application and a \$30.00 non-refundable Application Fee, the Admissions Committee considers applications for admission. Although not required, a personal interview is strongly suggested to clarify Molloy's programs to the applicant.

Based on the results of the above evaluation, students may be admitted into the program or given recommended coursework required to obtain eligibility for admission. Non-matriculated students are not eligible to take any coursework that involves clinical experiences. The Committee for Admissions reviews credentials and notification of the decision of this committee is made to all applicants who complete the application procedure.

Acceptances are based on rolling admissions. To receive confirmation of acceptance, a candidate must submit a \$200.00 non-refundable Confirmation Deposit, which is required as soon as possible after acceptance or by the date specified in the acceptance letter.

All students must submit documentation of immunization, as mandated by the New York State Public Health Law. Students born after January 1, 1957, must submit documentation of immunization to Measles (2 doses), Mumps, and Rubella. It is recommended that all students have a current physical and tuberculin test (PPD) prior to University studies.

TRANSFER STUDENTS

Transfer students who have attended regionally accredited two-year colleges will be awarded credit for their previous coursework up to a maximum of 64 credits. Programs with established articulation agreements may award additional credits. Students transferring in with a regionally accredited AA, AS or AAS and Molloy associate degree graduates will have all General Education Requirements waived except for three credits in Theology and Religious Studies and three credits in Ethics unless these credits are transferred in and accepted at the time of admission.

Transfer students who have attended regionally accredited four-year institutions will be awarded credit for their previous coursework up to a maximum of 98 credits. Students entering into a bachelor's degree program at Molloy who already hold a bachelor's degree from another regionally accredited institution will receive 98 credits in transfer and will have all General Education requirements waived. Transfers must still complete a minimum of 30 credits in residency at Molloy.

Transfer credit is awarded only for courses with grades of "C" or better from the institution at which these courses were completed. Courses with grades lower than "C" are considered only if a degree was completed at the school where the credits were taken. In such a case, "D" credit, which was part of the program leading toward that degree will be acceptable or unacceptable in the same way a grade of "D" at Molloy would be applied (i.e., not in the Major, where a grade of

“C” or better is required). Programs may require a minimum grade of C+ for credit in related requirements.

For all transfer students, the grade of “P” will be considered for transfer credit, to be used in the same way that the Pass/Fail rules at Molloy allow. The “P” grade must be the equivalent of a “C” grade at the institution where the credits were completed to be considered unless, again, a degree was completed.

Transfer students coming from non-regionally accredited colleges or schools will have their previous coursework reviewed on a case-by-case basis.

The total number of credits earned prior to admission through independent study, advanced placement, and credit by examination (CLEP, RCE, REDE), may not exceed 46.

ADVANCED PLACEMENT EXAM TRANSFER CREDIT

Advanced Placement credit will be granted by Molloy University to qualified students based on a score of “3” or better on the Advanced Placement Examination of the University Entrance Examination Board. Students anticipating a major in Biology need a minimum score of “5” to award Advanced Placement credit in Biology. A score of “3” or better will be considered for general elective credit. Official score reports must be forwarded to the Admissions Office to be granted credit.

ADMISSIONS AND PROGRESSION REQUIREMENTS

- Pre-requisites: high school algebra, biology, and chemistry or its equivalent.
- Applicants may be required to have an interview with the Program Director at the department’s discretion.
- All students are responsible for their own transportation to and from designated clinical sites.
- Students are responsible for meeting all program requirements.
- Students may be required to have a background check and drug screening.

PREGNANCY POLICY

The purpose of the student pregnancy policy is to assure students a safe pregnancy and to follow federal and state radiation regulations as well as the Equal Employment Opportunity Commission guidelines. Pregnant student nuclear medicine technologists may continue in the Nuclear Medicine Technology program. It is the individual student's responsibility to utilize the guidelines set forth in this policy for protection of the embryo/fetus and self. (See Pregnancy Acknowledgement).

Any suspected or known pregnancy can be voluntarily reported to the Program Director and/or the Clinical Coordinator in writing. The pregnant student will sign the Pregnancy Release form to acknowledge comprehension of the information provided by the program faculty. The pregnant student will be issued an additional fetal monitor (radiation dosimeter) which will be worn at the waist.

According to the NRC Report # 53, the maximum permissible dose equivalent from occupational exposure to the expectant mother is 500 mrem (5 mSV) for the entire pregnancy. The monthly radiation exposure report inclusive of a cumulative dose for everyone is made available to the program faculty and the student.

It is not recommended that a pregnant student directly perform or observe any radiation therapy technique or PET procedure for the duration of the pregnancy. Clinical rotation schedules may be modified to schedule the pregnant student through low radiation areas especially during the first trimester. The pregnant student is expected to meet all objectives and clinical competencies of each clinical education course without exception. Failure to complete all required clinical assignments could possibly result in a failing grade for that clinical course.

A student is offered two alternatives after the consultation with the program Director upon voluntarily declaring pregnancy. These options are:

- 1) The declared pregnant student can immediately withdraw from all clinical and didactic courses and write a letter to the Program Director for re-entry the following year.
- 2) The declared pregnant student can continue in the program after being given specific instruction regarding radiation safety practices, additional radiation monitoring, and specific clinical and laboratory assignments.

GRADING CRITERIA FOR PROGRESSION

- A student must have an overall 2.5 Cumulative Index prior to beginning nuclear medicine courses.
- A grade of “B-” or better is necessary for all required Nuclear Medicine Technology courses.
- A grade of “C+” or better is necessary for math and science courses.

The following priorities apply when a student attains a grade below “B-” in NMT courses:

- NMT courses may be repeated one time. Failure to attain a grade of at least “B-” when taking an NMT course for the second time will necessitate withdrawal from the Program.
- Clinical NMT courses may be repeated once with permission of the Program Director. A subsequent failure to achieve a “B-” in any other clinical necessitates withdrawal from the Program.
- A maximum of two NMT courses may be repeated within the major. On the third failure to achieve a “B-”, the student will be removed from the Program.
- Students who have been withdrawn due to academic failure may not be readmitted to the NMT Program.
- Students may withdraw from the same NMT course no more than one time.

NOTE: The Nuclear Medicine Technology Program reserves the right to make necessary program alterations in response to changes in professional nuclear medicine practice and/or the health care delivery system.

HEALTH REQUIREMENTS/CASTLEBRANCH

All students are required to have a pre-entrance physical examination, annual physical exam, and required immunizations on the University health form. In addition, students must meet specified health requirements of individual clinical agencies. Students must have an active Castle Branch account to track these health requirements. Student is directly responsible for the expense of this service.

TITLE IX

Title IX is a federal civil rights law that prohibits discrimination in education:

“No person in the United States shall, on the basis of sex, be excluded from participation in, be denied benefits of, or be subjected to discrimination under an educational program or activity receiving federal financial assistance.” Any person who believes that discriminatory practices have been engaged in based upon gender may discuss their concerns and file informal or formal complaints of the possible violation of Title IX with the Title IX Coordinator. The Title IX Coordinator at Molloy University is Lisa Miller, Director of Human Resources, located in Kellenberg Hall, Room 112. The phone number is 516-323-3046.

NON-DISCRIMINATION POLICY

Molloy University admits students without regard to age, race, color, sex, religion, national or ethnic origin, or physical and/or learning disability to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate based on age, race, color, sex, religion, national or ethnic origin, or physical and/or learning disability in the administration of

its educational policies, admissions policies, scholarship, loan programs, athletic, and other University administered programs. Inquiries concerning these policies may be referred to Lisa Miller, Human Resources Director, K112 Kellenberg Hall, or by calling 516-323-3046.

ADA AND REHABILITATION ACT

In compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990 and its amendments, Molloy University provides reasonable accommodations and services upon request to individuals with documentation supporting a covered disability or chronic illness. The ADA/Section 504 Coordinator at Molloy University is Cari Rose-Tomo in the William J. Casey Center, Room C011. The telephone number is 516-323-3315.

DSS/STEEP - DISABILITY SUPPORT SERVICES/SUCCESS THROUGH EXPANDED EDUCATION PROGRAM

Molloy University provides a supportive environment for students with documented disabilities and is committed to complying with all applicable provisions of the Americans with Disabilities Act (ADA), ADA Amendments Act (ADAAA) of 2008 and Section 504 of the Rehabilitation Act of 1973. Students who are requesting accommodations and services must contact the DSS/STEEP office to initiate the process. Students are required to provide documentation, from a qualified professional, of their disability or chronic illness and to discuss how reasonable accommodations may assist them in fulfilling course requirements and participating in campus life. Determination of reasonable accommodations is an ongoing and interactive process. Students have the choice of whether or not to utilize accommodations. Students who have injuries, surgeries, or other conditions which will temporarily restrict them on campus, may contact DSS/STEEP to arrange for reasonable short-term accommodations. Documentation will be required.

DSS/STEEP also provides services to assist students in various areas of campus life. Appointments are scheduled on an as-needed basis to determine which individual and/or group services may be appropriate. For more information, contact the staff at 516-323-3315 or dss@molloy.edu. Accommodations and services are designed to equalize opportunities and access, not to lower the academic standard for these students or to alter the essential nature of the degree requirements.

ACE - ACADEMIC ENRICHMENT PROGRAM

The Academic Enrichment (ACE) Program assists all students in achieving their academic potential in math, science, and modern languages. Assistance in other disciplines is provided according to students' individual needs.

Tutees receive two kinds of assistance:

1. Remedial - When failing a course or below "C" in a major field
2. Supplemental - When passing a course but in need of reinforcement or clarification in particular aspects of the course work

Academic Tutors fall into three categories:

1. Professional: Active/semi-retired individuals certified in the courses they tutor
2. Graduate: Individuals who have a graduate or undergraduate degree from Molloy University or another University or university
3. Peer: Students who have taken and successfully passed the course(s) they tutor

FERPA RIGHTS

The Family Educational Rights and Privacy Act (FERPA) of 1974, as Amended, affords eligible students certain rights with respect to their educational records. (An “eligible student” under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution). These rights include:

- the right to inspect and review the student’s education records within 45 days after the day Molloy University receives a request for access. A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The school official will decide for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Molloy University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- the right to request the amendment of the student’s education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA.
- a student who wishes to ask Molloy University to amend a record should write the Molloy University official responsible for the record, clearly identify the part of the record the student wants changed and specify why it should be changed.
- if Molloy University decides not to amend the record as requested, the University will notify the student, in writing, of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing. (Molloy University information is further described under “Grade Appeals” and “Complaint Procedures” of the University catalog, as well as in the Molloy University Student Handbook.)
- the right to provide written consent before Molloy University discloses Personally Identifiable Information (PII) from the student’s education records, except to the extent that FERPA authorizes disclosure without consent.
- Molloy University discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person who is employed by Molloy University in an administrative, supervisory, academic, research or support staff position (including law enforcement unit personnel and health staff); a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee. A school official also may include a volunteer or contractor outside of Molloy University who performs an institutional service or function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order for Molloy University.
- upon request, Molloy University also discloses education records, without consent, to officials of another school in which a student seeks or intends to enroll.
- the right to file a complaint with the U.S. Department of Education, concerning alleged failures by Molloy University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:
 - Family Policy Compliance Office
 - U.S. Department of Education
 - 400 Maryland Avenue, S.W. Washington, D.C. 20202-5901
- Molloy University’s public notice on directory information is provided under “Confidentiality and Directory Information” in the catalog.

- FERPA permits the disclosure of personally identifiable information (PII) from students' education records, without consent of the student, if the disclosure meets certain conditions found in §99.31 of the FERPA regulations. Except for disclosures to school officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information and disclosures to the student. §99.32 of FERPA regulations requires the institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures. A postsecondary institution may disclose PII from the education records without obtaining prior written consent of the student.
- to other school officials, including teachers, within Molloy University whom the school has determined to have legitimate educational interests. This includes contractors, consultants, volunteers, or parties to whom the school has outsourced institutional services or functions, provided that the conditions listed in §99.31(a)(1)(i)(B)(1) - (a)(1)(i)(B)(2) are met. {§99.31(a)(1).}
- to officials of another school where the student seeks or intends to enroll, or where the student is already enrolled if the disclosure is for purposes related to the student's enrollment or transfer, subject to the requirements of §99.34. {§99.31(a)(2).}
- to authorized representative of the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education or State, and local educational authorities, such as a State postsecondary authority that is responsible for supervising the university's State-supported education programs. Disclosures under this provision may be made, subject to the audit or evaluation of Federal- or State- supported education programs, or for the enforcement of or compliance with Federal legal requirements that relate to those programs. These entities may make further disclosures of PII to outside entities that are designated by them as their authorized representatives to conduct any audit, evaluation or enforcement or compliance activity on their behalf. (§§99.31(a)(3) and 99.35).
- in connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid or enforce the terms and conditions of the aid. {§99.31(a)(4).}
- to organizations conducting studies for, or on behalf of, the school, to (a) develop, validate or administer predictive test; (b) administer student aid programs; or (c) improve instruction. {§99.31(a)(6).}
- to accrediting organizations to carry out their accrediting functions. {§99.31(a)(7).}
- to parents of an eligible student if the student is a dependent for IRS tax purposes. {§99.31(a)(8).}
- to comply with a judicial order or lawfully issued subpoena. {§99.31(a)(9).}
- to appropriate officials in connection with a health or safety emergency, subject to §99.36. {§99.31(a)(10).}
- information the school has designated as "directory information" under §99.37. {§99.31(a)(11).}
- to a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense, subject to the requirements of §99.39. The disclosure may only include the final results of the disciplinary proceeding with respect to that alleged crime or offense, regardless of the finding. (§99.31(a)(13).)
- to the general public, the final results of a disciplinary proceeding, subject to the requirements of §99.39, if the school determines the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and the student has committed a violation of the school's rules or policies with respect to the allegation made against him or her. {§99.31(a)(14).}
- to parents of a student regarding the student's violation of any Federal State or local law, or of any rule or policy of the school, governing the use or possession of alcohol or a controlled substance if the school determines the student committed a disciplinary violation and the student is under the age of 21. {§99.31(a)(15).}
- the disclosure concerns sex offenders and other individuals required to register under section 17010 of the Violent Crime Control and Law Enforcement Act of 1994.

STATEMENT OF ACADEMIC INTEGRITY

The administration and faculty of the Department of Allied Health Sciences believe that academic integrity is one of the most important values and behaviors that should be practiced by students during their academic and clinical education. Integrity and honesty are especially valued in the health care professions because accurate diagnosis and treatment of patients are greatly dependent upon a health practitioner's honest and capable assessment of symptoms and diagnostic tests. This assessment can only be rendered by the practitioner who has "real" knowledge obtained as a student who answered test questions independently, thereby identifying and correcting mistakes. The successful practitioner can communicate important diagnostic and therapeutic information in writing because as a student, such skills were developed and/or enhanced by completing writing assignments independently. The practitioner who was dishonest in his or her educational pursuits is at great risk for making diagnostic and therapeutic mistakes and such errors can mean that someone's health care is mismanaged. Because we are committed to educating practitioners who provide the highest quality of health care, the University administration and faculty are equally committed to mandating and enforcing the practice of academic integrity by all students.

Molloy University is an independent comprehensive University, Catholic and Dominican in tradition and dedicated to academic excellence. Genuine commitment to excellence is the fundamental purpose of a university community and demands responsible standards of scholarship, teaching and learning. By seeking to promote an atmosphere of trust and dialogue, Molloy University intends to foster goodwill among its Faculty, Students, and Administrators. Within the framework of a liberal arts core, Molloy University is concerned not only with critical and creative thinking, but also with the virtuous formation of character. Of essential importance to Molloy University is Academic Integrity which confirms our common responsibility for fulfilling the goals of education.

Certain guidelines of Academic Integrity need to be specified to enhance the traditional relationship between faculty and students involved in their sincere pursuit to attain excellence. The professional and legal rights of all members within the University community are to be recognized and upheld with the highest standards of mutual respect and honesty. Continuous effort must be made by the community to share accountability on the various levels of academic concerns.

It is incumbent upon the faculty to provide an environment of Academic Integrity and to fulfill all professional responsibilities, which include but are not limited to the following:

- Distributing and reviewing course outline
- Meeting classes as scheduled and making appropriate preparations for all class sessions
- Providing an atmosphere conducive to serious and scholarly study
- Encouraging students to fulfill their potential
- Respecting the dignity of students
- Grading assignments, tests, and papers within a reasonable amount of time and by criteria mutually understandable and acceptable within the field of study
- Using academic evaluations based on unbiased professional judgment
- Being available for appointments with students

These professional responsibilities are the criteria used for a grade appeal. It is expected that students fulfill their responsibilities within the University community by:

- attending and being prepared for scheduled class meetings
- complying with course requirements as stated in course outline

It is also expected that administrators fulfill their responsibilities with the University community by:

- promoting an atmosphere of trust and integrity

- lending support to the accomplishments of the academic goals and objectives of both students and faculty

HONOR PLEDGE

In the spring 2000, the Honor Pledge was ratified by the Molloy University community. The following pledge was approved by the ad hoc Committee on Academic Integrity, which is a subcommittee of Undergraduate Academic Policies and Programs Committee:

As a member of Molloy University, Catholic and Dominican in tradition, I dedicate myself to the ideals of truth, scholarship, and justice. I pledge to demonstrate personal and academic integrity in all matters. I promise to be honest and accountable for my actions and to uphold the Honor System to better myself and those around me. I will refrain from any form of academic dishonesty or deception.

ACADEMIC INFRACTIONS SUBJECT TO DISCIPLINARY ACTION

Engaging in any form of academic dishonesty is an Academic Infraction Subject to Disciplinary Action (AISDA). Students are responsible for knowing the policies regarding cheating, plagiarism, facilitating academic dishonesty, and fabrication, as well as the penalties for such behavior. Academic Infractions Subject to Disciplinary Action include:

- A. Cheating - utilizing a source other than self during an exam or in completing an assignment.
- B. Fabrication - intentional and unauthorized falsification or invention of any information.
- C. Facilitating academic dishonesty – intentionally or knowingly helping or attempting to help someone commits an act of academic dishonesty. For example, allowing another to copy from you during an examination, doing work for another and allowing her/him to represent it as her/his own, and supplying information regarding examinations to others.
- D. Plagiarism - failure to document the direct words of another or the rephrasing of another's words so as to represent them as one's own, handing in another's paper or project as one's own, or reusing your own paper from another course without the prior instructor approval.

DUE PROCESS PROCEDURE IN ACADEMIC AREAS

The President, who is the Chief Executive Officer of the University, delegates the supervision of student conduct and discipline in academic areas to the Associate Dean for Academic Services.

PROCEDURE

1. All persons concerned should first make every effort to resolve the matter through informal consultation with the Associate Dean for Academic Services to reach an acceptable solution short of the use of the formal procedure. If there is no resolution at this level or no acceptance by the student of the discipline meted out by the Associate Dean for Academic Services, formal proceedings may be initiated provided a written charge against the student is filed by the complainant on the official AISDA Complaint Form which can be found in the Office of the Associate Dean for Academic Services. The Associate Dean for Academic Services may also elect to initiate formal proceedings in those situations serious enough to warrant the use of these formal channels for disciplinary action.
2. Upon the filing of such a written charge, the Associate Dean for Academic Services gives written notification to the student of the charges and the general nature of the evidence to support these charges. The student must be notified within twenty-one (21) calendar days of the complaint of the offense in question.

3. The student has fourteen (14) calendar days after receipt of the formal notification to answer the charges in writing. She/he may choose to:
 - A. Not initiate a formal procedure and accept the discipline of the Associate Dean for Academic Services. This option is not available when the formal proceeding has been initiated by the Associate Dean for Academic Services
 - B. Waive her/his defense at the hearing before a Judicial Committee
 - C. Appear before the Judicial Committee
 - D. Withdraw from the University
4. The Judicial Committee shall be composed of two faculty members chosen by the Faculty President, two students chosen by MSG President, or, in the event of a graduate student hearing, by the Department, and one appropriate administrator chosen by the Associate Dean for Academic Services. The Associate Dean for Academic Services shall serve as chairperson for the committee, with no vote except in the case of a tie. A majority vote of the judicial committee will make the decision.
5. The Associate Dean for Academic Services will notify the accused and complainant of the composition of the committee. If any member of the committee is unacceptable to either the accused or the complainant, that party must notify the Associate Dean for Academic Services within three (3) days of receiving this information. Each party is limited to two (2) objections. Members of the Committee are expected to be impartial, to seriously consider the facts of the case, and to avoid imposition of sanctions against any participants in the process.
6. If the charges in the academic dishonesty case are not sustained by the Judicial Committee, then, based on the information presented and the decision reached during the hearing, this Committee would be empowered to request a grade change from the faculty member concerned with the work or course in question in accordance with the course outline that is on file in the office of the Associate Dean for Academic Services. Should the faculty member not wish to comply, the term paper, test or other project in question is to be given to the Associate Dean for Academic Services to be re-graded by a qualified scholar of her choice. After the work in question has been re-graded, the Committee will reconvene to calculate the student's grade which, when filed, will be the grade for such work.
7. If the accused student chooses not to appear before the Judicial Committee, this committee will weigh the evidence and hand down a decision.

RIGHTS OF STUDENTS IN DISCIPLINARY PROCEEDINGS

For any disciplinary action for which sanctions may be imposed, the student shall have the right to:

1. be considered innocent until found guilty, by clear and convincing evidence, of academic dishonesty.
2. be informed of his/her rights.
3. receive written, timely and complete notice of the specific charges to be resolved.
4. seek advice and/or counsel. If any attorney-at-law is chosen, this attorney may not participate directly in the proceedings.
5. have fair disposition of all matters as promptly as possible under the circumstances.
6. elect to have a public or private hearing.
7. hold unaltered student status pending a final adjudication and disposition of all matters, except in extraordinary circumstances.
8. be informed of the maximum and minimum sanctions which may be imposed.
9. be informed of the general nature of the evidence to be presented.
10. confront and question all parties and witnesses except when extraordinary circumstances make this impossible.
11. present a factual defense through witnesses, personal testimony, and other relevant evidence.
12. suggest questions which might be put to witnesses.
13. decline to testify against oneself.

14. have only relevant evidence considered by the Judicial Committee.
15. be informed of all decisions within 14 calendar days of the conclusion of the hearing.
16. request an appeal of the disciplinary sanction of suspension from the Vice President for Academic Affairs and to request an appeal of the disciplinary sanction of dismissal from the President of the University. Students are to notify the Associate Dean for Academic Services if they want to file an appeal.
17. be free from repeated disciplinary proceedings where the parties and the issues are the same.

FORMAL HEARING

1. The accused student has the right to have the hearing before the Judicial Committee. The accused student chooses whether the hearing is to be private or public.
2. At the hearing before the Judicial Committee, both the accused and the complainant may have the advisor or counsel of their choice present; however, the advisor or counsel may not participate directly in their proceedings.
3. It will be the policy of the University that a record of the hearing shall be taped.
4. Both accused and complainant have the right to cross-examine all witnesses.
5. After the presentation of both the accused and the complainant, the committee shall deliberate in private until a decision is reached. When a decision has been reached, the hearing shall be reconvened and the decision announced.
6. If a decision is entered against an accused, the Committee shall recommend the imposition of disciplinary and restitutionary sanctions which may include:
 - A. Disciplinary Warning: A written statement from the Associate Dean for Academic Services expressing disapproval of conduct. No record of the Disciplinary Warning shall be maintained in the student's file.
 - B. Disciplinary Reprimand: A written statement from the Associate Dean for Academic Services expressing disapproval of conduct. A record of this disciplinary reprimand shall be maintained in the student's folder in the Office of the Associate Dean for Academic Services for the length of time the student attends the University. This record may be introduced in subsequent disciplinary proceedings.
 - C. Disciplinary Probation: A conditional retention of student status for a specified period. During the probationary period, a student is excluded from participation in any extracurricular activities of the University and may not hold any appointed or elected positions.
 - D. Disciplinary Suspension: A termination of registration as a student for a specified period. During the period of suspension, a student is excluded from classes and all other University privileges and activities. A record of the Disciplinary Suspension shall be maintained in the student's folder in the Office of the Associate Dean for Academic Services and made a permanent part of this folder. This record may be introduced in subsequent proceedings.
 - E. Disciplinary Dismissal: A termination of registration of a student. If the student applies for readmission, the student will not be allowed to return to the University. A record of this Disciplinary Dismissal shall be maintained in the student's folder as a permanent record in the Office of the Associate Dean for Academic Services.
 - F. Substituted Sanction: A constructive and voluntary undertaking by a student which by agreement with the Judicial Committee, shall be substituted for any of the above sanctions. A record of this substituted sanction shall be maintained in the student's folder in the Office of the Associate Dean for Academic Services for the length of time the student attends the University. If the substituted sanction is not satisfactorily completed, the Judicial Committee shall reinstate the original sanction.
 - G. Partial credit for the exercise involved.
 - H. Score of zero on the exercise involved.

1. Failure of the course.

APPEAL

Students who want to appeal the sanction of suspension or dismissal should notify the Associate Dean for Academic Services.

1. Students have the right to petition the President of the University for an appeal from a disciplinary sanction of the Judicial Committee resulting in dismissal from the University. The President will review the evidence as presented to her/him by the Judicial Committee and will make her/his decision after review of the case in question.
2. Students have the right to petition the Vice President for Academic Affairs for an appeal from a disciplinary sanction of the Judicial Committee resulting in suspension from the University. The Vice President for Academic Affairs will review the evidence as presented to her/him by the Judicial Committee and will make her/his decision after the review of the case in question.

DISCIPLINARY DISMISSAL/DISCIPLINARY SUSPENSION

Even in the absence of a student appeal, any sanction of Disciplinary Dismissal handed down by the Judicial Committee always requires administrative review and approval by the President of the University and may be altered, deferred, or suspended by the President.

POLICY CONCERNING GRADE APPEALS

In all questions concerning grades, the student should first confer with the instructor, and then with the department chairperson. Should either or both individuals not be available, the student should notify the Associate Dean for Academic Services so that other arrangements can be made.

- A. A grade appeals committee is empowered as the final board of appeals, in the rare event that a student has exhausted all appropriate channels (instructor, chairperson, Associate Dean for Academic Services) to make a final decision.
- B. This committee, called a Tribunal, consists of the Associate Dean for Academic Services, or a delegate, two faculty members, and two students.
- C. After receiving written notification regarding a grade appeal, the Associate Dean for Academic Services will select two faculty members and two students to serve on the Tribunal. Faculty members for a Tribunal will be recommended by the President of the Faculty Council. Student members of a Tribunal for an undergraduate student will be recommended by the Student Government President. Student members of a Tribunal for a graduate student will be recommended by the Department, and one appropriate administrator chosen by the Associate Dean for Academic Services. The Associate Dean for Academic Services shall serve as a chairperson for the committee, with no vote except in the case of a tie. A majority vote of the Judicial Committee will make the decision. These faculty and student members will serve on the Tribunal on a voting basis.
- D. The responsibilities of the members of the Tribunal will be to:
 1. Assure confidentiality of all parties concerned.
 2. Have both parties appear before the Tribunal together.
 3. Allow the parties concerned the right to question each other.
 4. Permit both parties to have witnesses.
 5. Allow the parties concerned the right to question the witness brought forward.

6. Formulate a decision regarding a grade appeal, after utilizing research resources. If deemed necessary, confidential files will be made available in the presence of the Associate Dean for Academic Services two days before the Tribunal meets.
 7. Make the appropriate recommendations to the professor and student.
 8. Inform the Associate Dean for Academic Services of their deliberations and decisions.
 9. Retain a tape recording of the appeal.
 10. Lawyers may not participate in these academic proceedings.
 11. A majority vote of the Tribunal will make the decision.
- E. The Associate Dean for Academic Services shall be responsible for:
1. Obtaining from the student a written request for a hearing at a Tribunal. The request should list the specific complaints that the student has regarding the Academic Integrity and the fulfillment of professional responsibilities of the faculty member.
 2. Sending a duplicate copy of the written request for the tribunal to the instructor involved.
 3. Making necessary arrangements. If a mutually agreeable time for the Tribunal cannot be obtained within a one-week period, a date will be set by the Associate Dean for Academic Services.
 4. Assuring that the student, faculty member, and the members of the Tribunal are acceptable to both the faculty and the student. Faculty and student are each limited to two objections.
 5. Monitoring any disposition made by the Tribunal to the conclusion of the case.
- F. All grade protests within the course of the semester must be received within ten (10) school days of receipt of the grade by the student. Final grade protests must be received within 30 calendar days of the grade being posted by the faculty onto Lion's Den. Evidence used during the final grade protests may include grades received throughout the semester if these grades were used in calculating the final grade for the course. If during the term a grade was brought before a grade appeals Tribunal and a decision handed down, then that grade cannot be re-appealed in a final grade appeal.
- G. The faculty member responds, except under extraordinary circumstances, within thirty (30) calendar days after the meeting of the Tribunal.
- H. In the event a professor leaves the University, dies, or for some reason does not appear before the Tribunal, the student will still present his/her case. In this eventuality, a recommendation will be made at the discretion of the Tribunal. If, after the date is set for the Tribunal, any member of the party (faculty or student) fails to appear, the Tribunal will meet and dispose the case.
- I. The decision of the Tribunal is final.

ACADEMIC REVIEW PROCESS

Students share responsibility for their learning and are expected to meet program and course requirements.

Students are entitled to timely, fair, and equitable evaluation of their academic work. A student who has a question or issue regarding grading may initiate the Academic Review Process.

INFORMAL PROCESS

Step One:

A student who has an academic issue meets with the faculty concerned. The intent of this meeting is to discuss the academic problem and together seek resolution.

The student has the option to move to Step Two if there is failure to obtain a satisfactory agreement.

Step Two:

A meeting between the student, faculty and Associate Dean & Director is held in a second attempt to reach resolution.

The student has the option to move to Step Three if there is failure to solve the problem.

FORMAL PROCESS

Step Three:

- a. The student submits a completed *Academic Review Form* to the Dean, School of Nursing and Health Sciences.
- b. A formal meeting is held with:
 - Dean
 - Associate Dean or Department Chair
 - Faculty member
 - Student
- c. The student may select to be accompanied by a non-legal support person.
- d. The student has the option to move to Step Four if there is a failure to obtain a satisfactory resolution.

Step Four:

If there are grounds for a subsequent formal grade appeal per university policy, the student may implement the Molloy University Grade Appeal Process. Refer to the **Molloy University College Undergraduate/Graduate Student Handbook and Calendar**. It is the responsibility of the student to obtain the instructions and to observe the deadlines for filing an appeal. **NOTE THE UNIVERSITY'S TIMEFRAME for submitting appeals.**

Revised 8-2023

MOLLOY UNIVERSITY
The Barbara H. Hagan
School of Nursing &
Health Sciences
ACADEMIC REVIEW FORM

THIS FORM IS TO BE COMPLETED BY STUDENTS WHO WISH TO PURSUE MEDIATION OF AN ACADEMIC ISSUE.

Student Name: _____ **Date:** _____

(Please print)

Course: _____

It is understood that an informal discussion has taken place between the student and the faculty member concerned.

Faculty name: _____

Date of meeting: _____

Outcome: _____

It is also understood that an informal discussion has taken place with the student, faculty, and the Associate Dean & Director.

Associate Dean or Department Chair: _____

Date of meeting: _____

Outcome: _____

FORMAL MEDIATION FOR ACADEMIC REVIEW

1. Specify problem or complaint: _____

2. Provide evidence to support the complaint: _____

3. State desired outcome: _____

Student Signature

Date

FOR DEPARTMENT USE ONLY

_____ **Resolution**

_____ **No basis for grade appeal**

_____ **Grade appeal**

Signature

Date

Rev 8-2023

ATTENDANCE

The policy on attendance is one of “responsible attendance.” Students are expected to attend all classes, regularly and punctually. First semester freshmen students are limited to three absences in a course. All other students: see attendance policy as stated in the course outline. This is also described in the current University Catalog. Students are to notify the Office of the Vice President for Student Affairs, located on the third floor of the Public Square Building if they will be absent from classes so this information can be brought to the attention of their instructors.

ATTENDANCE POLICY:

It is the accepted practice at Molloy University that faculty take attendance in all courses. Students should notify faculty if an absence, if necessary, as the result of a serious situation. Failure to attend class for two (2) consecutive weeks at any point in the semester, without notification of extenuating circumstances, will result in an administrative withdrawal from the course.

In the case of an online or hybrid course, attendance is considered similarly important. Therefore, failure to participate in academic activities in any given week is considered an absence. Examples of participation in academic activities representing attendance would be participation in a class chat or discussion board on an academic topic, submissions of a required assignment, digital interaction with the professor on an academic topic, and completion of a quiz or exam.

Administrative withdrawal results in removal from the course with a grade of "WA" or "WF"

determined by the point in the term and the academic performance.

Students should consult the University catalog for complete details regarding withdrawals and the potential financial implications of a withdrawal. *Religious Observances* - A student who is to be absent from class because of a religious obligation or practice, should inform the instructor in writing at least one week before the day. The student has the right to make up any examination, study, or work requirements which may have been missed because of religious observances.

GRADING POLICY

(Effective Fall 2022)

A student's scholastic standing is determined by an evaluation of grades attained. Each credit hour has a quality equivalent. The student's index equals the total number of quality points divided by the total number of credit hours for which the student has received quality points.

GRADES:

A	93.0–100	4.0 quality points
A-	90.0–92.9	3.7 quality points
B+	87.0–89.9	3.3 quality points
B	83.0–86.9	3.0 quality points
B-	80.0–82.9	2.7 quality points
C+	77.0–79.9	2.3 quality points
C	73.0–76.9	2.0 quality points
C-	70.0–72.9	1.7 quality points
D+	67.0–69.9	1.3 quality points
D	60.0–66.9	1.0 quality points
F	Below 60.0	0.0 quality points

F Failure - students that attended the course and failed.

I Incomplete - Computed as failure: Some requirement of the course is lacking.

(Automatically becomes an F if requirement is not met within specified time)

Students enrolled in the Nuclear Medicine Technology Program who withdraw from an NMT course with an average less than the required B- (minimum of 80%) after mid-semester but before the final examination will earn a grade of WF. All NMT courses require a minimum of a B- or better to advance in the sequential program.

W-Withdrawn-Student Officially Withdrew before Finals (No credits earned and no quality points)

WA-Withdrawn-Absent/Passing (No credits earned and no quality points)

WF-Withdrawn-Absent/Failing (Computed as a failure)

WIP- Work-in-Progress

P-Passed (Course taken for credit and no quality points) AU

Audit -(No credits earned and no quality points)

REMEDICATION

Molloy University utilizes a Mid-Semester Appraisal System to assist students in identifying weaknesses and to direct students to resources for remediation:

Midsemester Performance Appraisal:

- | | |
|---|----------------------------|
| <input type="checkbox"/> Excessive Absence | Unsatisfactory Performance |
| <input type="checkbox"/> Weak in Content Area | Failing at this Point |

Missing:

- | | |
|--|---------------------------|
| <input type="checkbox"/> Class | Homework |
| <input type="checkbox"/> Exams | Paper |
| <input type="checkbox"/> Test | Lab Report |
| <input type="checkbox"/> Quiz | Essay |
| <input type="checkbox"/> Oral Presentation | Service Learning Contract |
| <input type="checkbox"/> Speech | Journal Critique |

Recommendations:

- | | |
|--|--|
| <input type="checkbox"/> Ask Questions | Use CD Interactive Video for Different Skills |
| <input type="checkbox"/> Participate in Class/Clinical | Use Study Guides |
| <input type="checkbox"/> Speak with Instructor | Participate at Clinical Site |
| <input type="checkbox"/> Review Materials | Makeup Exam |
| <input type="checkbox"/> Complete Assignments | Hand in Homework and Papers Before Deadline. |
| <input type="checkbox"/> Put More Quality Time and Effort into Class | <input type="checkbox"/> Review Materials Before Class |
| Meet with Instructor to Review Study Skills | <input type="checkbox"/> Please Consider Withdrawing |

Referrals:

- | | |
|--|----------------------------------|
| <input type="checkbox"/> Tutoring | Go to Lab |
| <input type="checkbox"/> Writing Resource Center | Go to Student Assistance Program |
| <input type="checkbox"/> Join Group Study | Go to Language Research Center |

Additional Comments:

In addition to this system, faculty will recommend students seek remediation through attendance in **Open Laboratory times**; to remediate deficits in psychomotor skills identified through lab and clinical performance evaluations.

FACULTY ADVISING AND OFFICE HOURS

All students in the Nuclear Medicine Technology Program are assigned a faculty advisor from the Nuclear Medicine Program. Please consult with your advisor first regarding all academic and non-academic issues. Your advisor will refer you for additional assistance, as needed. All full-time faculty members have office hours posted. Please email for an appointment. Please see the Clinical Coordinator/Program Director of the program for all issues regarding clinical rotations, health clearances, and background checks.

If you have a problem with any of the Departmental faculty or staff, please make an appointment with the Chairperson/Program Director, Allied Health Sciences Department, to discuss your concerns.

MEMBERSHIP IN PROFESSIONAL ASSOCIATION

Students are expected to apply for student membership in the Society of Nuclear Medicine and Molecular Imaging (SNMMI). Membership in the SNMMI is a vital component of being a professional member of this field. Benefits of student membership include access to electronic media, subscriptions to the journal, and significantly discounted admission fees at national, state, and local symposiums. The program director applies for a free trial membership for each NMT student. Please visit <http://www.snmmi.org>

INTELLECTUAL PROPERTY

Students are not to share electronic files previously obtained from the faculty with anyone for any reason, including other students. Any student who is in possession of any electronic file previously obtained from a faculty member without that faculty member's permission is to destroy it immediately after having notified the faculty member that it was surreptitiously obtained.

STUDENT ACTIVITIES

Students are encouraged to participate in orientation programs, recruitment functions, social and cultural events, the Nuclear Medicine Technology Open House, and Career Days. They can represent students' viewpoints on Program, School, and University committees.

STUDENT AWARDS

Students are eligible to receive multiple awards from the NMT Program:

- **John J. Magovern, MD Educational Scholarship:** awarded to the most outstanding Junior NMT student.
- **PHARMALOGIC/ Nuclear Diagnostic Products Achievement Award:** awarded based on high academic achievement and financial need to a Junior Student.
- **Jubilant Radiopharmay Outstanding Graduate Award:** awarded based on excellence in patient care, high academic achievement, and the ability to work well in a clinical setting.
- **Pinestar Award:** awarded to a graduate who has shown the most improvement .
- **Anand Foundation Scholarship:** awarded to a NM graduate who demonstrates professionalism and exemplary service to the community.

PROFESSIONAL SOCIETIES

Students are strongly encouraged to participate in professional activities and to seek memberships in national, state, and local societies, which sponsor student competitions.

Student memberships are offered by the following organizations:

- *American Society of Radiologic Technologists (ASRT)*
- *Society of Nuclear Medicine and Molecular Imaging (SNMMI)*

SUMMER CLINICAL COURSEWORK

The curriculum for the Nuclear Medicine Technology program includes required clinical courses that run in the summer following the third year. Students must pay separate tuition and fees for the summer session. This session is not included in either the fall or spring semester tuition bills and is considered a separate summer session.

NUCLEAR MEDICINE TECHNOLOGY – B.S. DEGREE COURSE REQUIREMENTS

New York State Registered Program Code: 35927 HEGIS Code: 1225.00 -Radiologic Technologies Baccalaureate and higher.

Molloy Program of Study Code: NMTBS. This new program code began accepting students beginning in the fall of 2014.

Credits General Education Requirements (32 credits):

- Arts and Fine Arts (2 out of 3 disciplines) -3 Credits
1 of either Art History/Music History; and
1 COM/Speech - 6 Credits
- English and Modern Languages) - 9 Credits
One of each discipline-Eng1100, Modern Language, Modern Language/ Modern Language Literature
- Social and Behavioral Sciences (2 out of 3 disciplines): His/Pol/Soc- 6 Credits

Related Requirements (33 credits):

- Bio 1200 Anatomy and Physiology I -4 Credits
- Bio 1210 Anatomy and Physiology II-4 Credits

- CHE 1090 University Chemistry 1 credit
- CHE 1120 University Chemistry II with Lab - 4 Credits
- ETH 2880 Ethics and Health Care-3 Credits
- MAT 1150 Elementary Statistics-3 Credits
- MAT 1180 University Calculus/Algebra 3 Credits
- PHY 1880 University Physics I-3 Credits
- PHY1890 University Physics II-3 Credits
- PSY 1110 General Psychology- 3 Credits

Major NMT Requirements (62 credits):

- **NMT 2990** Introduction to Fundamentals in Nuclear Medicine Technology- 3 Credits
- **NMT 3000** Radiation Physics- 3 Credits
- **NMT 3010** Patient Care in Nuclear Medicine Technology -3 Credits
- **NMT 3020** Radio-Pharmaceutical Chemistry-3 Credits
- **NMT 3030** Instrumentation and Computer Applications-3 Credits
- **NMT 3040** Radiation Protection and Biology- 3 Credits
- **NMT 3050** Clinical Procedures I–3 Credits
- **NMT 3060** Clinical Procedures II-3 Credits
- **NMT 3070** Clinical Procedures III- 3 Credits
- **NMT 3100** Nuclear Medicine Internship I-1 Credit-112 Clinical Hours
- **NMT 3110** Nuclear Medicine Internship II-3 Credits-336 Clinical Hours
- **NMT 3120** Nuclear Medicine Internship III-3 Credits-384 Clinical Hours
- **NMT 3150** Hematology and Immunology in Nuclear Medicine Technology-3 Credits
- **NMT 4030** Advanced Imaging Physics -3 Credits
- **NMT 4070** Nuclear Medicine/CT Cross Sectional Anatomy-3 Credits

- **NMT 4080** Advanced Practice/Registry Review in Nuclear Medicine Technology-3 Credits
- **NMT 4090** Clinical Conference I and Management of Health Care Systems-3 Credits
- **NMT 4120** Nuclear Medicine Internship IV- 6 Credits-448 Clinical Hours
- **NMT 4140** Nuclear Medicine Internship V- 6 Credits-448 Clinical Hours
- **NMT 4900-** Clinical Conference II -3 Credits

Total Credits 128- Total Clinical Hours 1,728

NUCLEAR MEDICINE TECHNOLOGY COURSE DESCRIPTIONS

NMT 2990 INTRODUCTION TO FUNDAMENTALS IN NUCLEAR MEDICINE TECHNOLOGY-3 Credits

This course is designed to offer students with an introduction into the fascinating domain of nuclear medicine. Students will learn about the basic principles of nuclear medicine, along with the advantages and its limitations. It is intended to be a basic study of the terminology, radiotracers, instrumentation, physics, and radiation safety involved in Nuclear Medicine. It will allow the student to have a general knowledge of the activities of a Nuclear Medicine Department to complement their first clinical experiences. The Nuclear Medicine Code of Ethics as well as the history of Nuclear Medicine will be discussed. Basic quality assurance/quality control measures will be introduced. The specific “jargon” used in the field will be reviewed. The student will be introduced in a cursory manner to imaging procedures to prepare them for their first internship setting. This course will prepare the student to advance to the Clinical Procedures I, II, and III level courses.

NMT 3000 RADIATION PHYSICS- 3 Credits

The course starts with an introduction to atomic and nuclear physics. The principles of radioactivity and radioactive decay are thoroughly described. Radionuclide production methods are discussed followed by the various means by which radiation interacts with materials. Basic principles of radiation detectors, radiation measuring electronics and related statistics are presented. The last part of the course presents an introduction to the problems of radiation safety and health physics with specific discussion of the methods of internal radiation dose calculation that are so important to the safe use of radioactive materials in nuclear medicine studies. Prerequisites: CHE 1100, CHE 1110, PHY1880, PHY 1890, NMT 2990. (Offered Fall)

NMT 3010 PATIENT CARE IN NUCLEAR MEDICINE TECHNOLOGY-3 Credits

Students study medical terminology and basic assessment skills necessary to function as technologists. Venipuncture techniques, starting IVs and taking vital signs will be demonstrated and practiced. Medical and legal considerations and ethics are discussed. An emphasis is placed on the concept of the patient's mental condition during hospitalization and describes anxiety and other emotional states and their manifestations in different individuals. Patient care issues and the problems of dealing with critically and terminally ill patients are discussed.

NMT 3020 RADIOPHARMACEUTICAL CHEMISTRY-3 Credits

This course begins with a study of the basic concepts of inorganic, organic and biochemistry. Specific topics include atomic structure, chemical bonding, and reactions, as well as use of periodic tables. This introduction leads into a comprehensive study of radiopharmaceutical methodologies, mathematical equations, basic properties of radioisotopes, production of radionuclides and an in-depth discussion of generator systems and tracer principles. Additional topics for discussion will include characterization and classification of diagnostic and therapeutic radioisotopes, bio distribution of medical tracers as well as the use of pharmaceutical adjuncts, radiopharmaceutical preparation, quality assurance, storage and record keeping.

Prerequisites: CHE 1090

NMT 3030 INSTRUMENTATION AND COMPUTER APPLICATIONS-3 credits

The course presents detailed discussions of nuclear medicine systems and applications. Pulse height spectrometry, which plays an important role in many nuclear medicine procedures is described followed by general problems in nuclear medicine counting for both in vivo and in vitro measurements. Radionuclide imaging, beginning with a description of the principles and performance characteristics of gamma cameras, still the workhorse of nuclear medicine, is covered. General concepts of image quality in nuclear medicine are discussed followed by an introduction to the basic concepts of reconstruction tomography. Instrumentation and implementation of reconstruction techniques are discussed for single photon emission computed tomography (SPECT) and positron emission tomography (PET) systems. Hybrid imaging and the basic principles of computed tomography (CT) scanning are presented. Finally, digital image processing techniques are summarized. Prerequisite: NMT 3000.

(Offered Spring)

NMT 3040 RADIATION PROTECTION AND BIOLOGY- 3 Credits

This course will examine specific components related to radiation biology, radiation safety and radiation protection in nuclear medicine operations. Personnel working within this environment must be aware of the effects of ionizing radiation in an occupational setting.

Prerequisite:

NMT 3001.

NMT 3050 CLINICAL PROCEDURES I- 3 Credits

This course is the student's first in-depth look at the field of nuclear medicine. Students will begin to learn fundamentals of nuclear medicine procedures, what they are used for and all relevant anatomy and physiology. Topics will include nuclear medicine computer systems musculoskeletal system, respiratory system, infection and oncology, and genitourinary system. Students will also learn appropriate use of radiopharmaceuticals, radiation safety and patient care.

These skills will be learned in the classroom with use of various educational aids and applied in clinical settings. Prerequisite: NMT 2990.

NMT 3060 CLINICAL PROCEDURES II-3 Credits

In this course the students will continue their study of the field of nuclear medicine by exploring further into more complex nuclear medicine procedures. Knowledge of medical terminology, anatomy & physiology, and radiation safety will play a large role. Students will incorporate skills and knowledge acquired in NMT 3050 to advance further. In NMT 3050, topics will include Nuclear Cardiology and Gastrointestinal System. Students will continue to learn appropriate use of radiopharmaceuticals as well pharmaceuticals, radiation safety and patient care. These skills will be learned in the classroom with use of various educational aids and applied in clinical settings. Prerequisite: NMT 3050.

NMT 3070 CLINICAL PROCEDURES III- 3 Credits

After successfully completing NMT 3050 and NMT 3060, students will be ready immerse into topics of Radiation Therapy, Central Nervous System, Endocrine System, Pediatric Nuclear Medicine, Non-Imaging Procedures and PET/CT Technology. Students' area of studies will include complex radiopharmaceuticals used in PET imaging, radiation safety and regulations involved in Nuclide Therapy, as well as learning skills of working with young children. A complete overview of healthcare ethics and patient care is also included in NMT3070. During this semester, a special emphasis will be placed on medical terminology and nuclear medicine technology board exams. Prerequisite: NMT 3060.

NMT 3100 NUCLEAR MEDICINE INTERNSHIP I- 1 Credit-112 Clinical hours

Students at this level will undergo an orientation to nuclear medicine technology in their first clinical experience. At this level, students should be able to perform work following demonstration by their clinical instructors. The student will aid the clinical instructor and perform patient related nuclear medicine services, quality control and quality assurance testing under supervision of their clinical preceptors always. One required seminar or class meeting with faculty. Minimum of 2 clinical visits to site conducted by Molloy faculty. Prerequisite: NMT 2990.

NMT 3110 NUCLEAR MEDICINE INTERNSHIP II-3 Credits-336 Clinical hours

Students should be able to perform work following demonstration by their clinical instructors. The student will aid the clinical instructor and perform patient related nuclear medicine services, quality control and quality assurance testing under supervision of their clinical preceptors at all times. At this level, the student should perform procedures step by step as the technologist gives direction and assistance. Clinical competencies should begin during this rotation. One required seminar or class meeting with faculty. Minimum of 3 clinical visits to site conducted by Molloy faculty. Prerequisite: NMT 3100.

NMT 3120 NUCLEAR MEDICINE INTERNSHIP III-3 credits-384 Clinical hours

At this level, the student should perform routine clinical procedures without instructional assistance, but under close observation always. One required seminar or class meeting with faculty. Minimum of 4 clinical visits to site conducted by Molloy faculty. Prerequisite: NMT 3110.

NMT 3150 HEMATOLOGY AND IMMUNOLOGY IN NUCLEAR MEDICINE TECHNOLOGY- 3 Credits

In order to understand the rationale used and the complexities associated with the use of radiopharmaceuticals in radio immunotherapy, it is essential for the Nuclear Medicine Technologist to understand the key steps in the development and function of the Hematologic and Immunologist systems. Radio immunotherapy has necessitated a deeper knowledge of the role of these systems in various disease states and cancers. Prerequisite: NMT 2990.

NMT 40300 ADVANCED IMAGING PHYSICS- 3 Credits

Hybrid imaging is fast becoming the primary imaging modality. The ability to see anatomy and function superimposed is critical to diagnosis in modern medicine. With that in mind this course is designed to teach nuclear medicine technologists the basic principles of computed tomography (CT) and magnetic resonance (MR) imaging. The CT section will focus on principles of image quality, measurement of radiation dose and “image gently” which addresses the modifications required to image pediatric patients. The MR section will focus on the basic principles of nuclear magnetic resonance, how to form an MR image and important safety considerations of MR imaging devices and patients undergoing MR scans. Nuclear medicine has become increasingly important in the research environment and therefore imaging systems that are used for small animals and other research purposes are discussed. Tracer kinetic modeling and its applications embody the most important strengths of nuclear medicine. Mathematical models and assumptions are described and examples of applications for calculating physiologic, metabolic, and biochemical parameters are presented. Prerequisite: NMT 3030. Co-requisite: NMT 4070.
(Offered Fall)

NMT 4070 NUCLEAR MEDICINE/CT CROSS SECTIONAL ANATOMY- 3 Credits

Sectional Anatomy & Imaging Strategies covers essential sectional anatomy and physiological aspects of radiology affecting image quality as well as the accepted clinical imaging techniques for each clinical area. Hundreds of labeled Nuclear Medicine, PET, MR and CT sectional images - both normal and pathological - are used to explain modern imaging techniques. The course is intended for Nuclear Medicine Technology students as the educational program to advance their knowledge into the field of Fusion Imaging. Sectional imaging strategies and the sectional presentation of anatomical structures will include the entire human body. Prerequisite: NMT 3120

NMT 4080 ADVANCED PRACTICE/REGISTRY REVIEW NUCLEAR MEDICINE TECHNOLOGY-3 Credits

Licensing for Nuclear Medicine Technologists is mandatory in 30 of the 50 states. Therefore, completion and passage of the certification/registry exam that will lead to a student attaining licensure will have an impact on the student's future career plans and mobility. All New York State Nuclear Medicine Technologists mandate licensure as of the beginning of 2009. This course is designed to prepare the students finishing basic coursework and clinical practicum to successfully pass the qualifying exam for licensure. Prerequisite: NMT 3070

NMT 4090 CLINICAL CONFERENCE I AND MANAGEMENT OF HEALTHCARE SYSTEMS-3 Credits

Writing-Intensive Course. This course will enable students to share their experiences from their clinical rotations with other students. Through extensive case study presentations, students can incorporate their previously taught didactic training to actual work-related activities in the clinical laboratories. It is recommended that students attend society functions and read society journals. The course will look at Health Care Systems and management related to Nuclear Medicine. This course will include research methods. Students will do a research project and write a scientific/professional paper and present their work to the class. Upon completion of this course, all students will have a broad understanding and proficiency in the management of health care systems to fulfill the role of a practicing nuclear medicine technologist. Prerequisite NMT # 3070

NMT 4120 NUCLEAR MEDICINE INTERNSHIP IV-6 Credits-448 Clinical hours

At this level, the student should perform routine clinical procedures without instructional assistance, but under close observation at all times. When this stage of competency is attained, the student is able to perform departmental functions and routine procedures under supervision. One required seminar or class meeting with faculty. Minimum of 4 clinical visits to site conducted by Molloy faculty. Prerequisite: NMT 3120.

NMT 4140 NUCLEAR MEDICINE INTERNSHIP V-448 Clinical hours-6 Credits

When this stage of competency is attained, the student is able to perform departmental functions and routine procedures under supervision. Upon completion of this internship, students will be proficient in the broad scope of practice to be an entry-level nuclear medicine technologist. All mandated clinical experience requirements for Nuclear Medicine Technology and CAT scan set forth by the Registry (ARRT) and Certification (NMTCB) bodies must be achieved by the completion of this internship. One required seminar or class meeting with faculty. Minimum of 4 clinical visits to site conducted by Molloy faculty. Prerequisite: NMT 4120.

NMT 4900 CLINICAL CONFERENCE II - 3 Credits

The course will review previously taught materials to prepare students for the registry and certification examinations. These didactics will supplement hands on clinical activities and required competencies necessary for students to complete the requirements to become eligible to sit for the boards in NM and CT. Students will share their clinical experiences with their peers. Upon completion of this course, students will demonstrate proficiency in all skills necessary to fulfill the role of a nuclear medicine technologist. Prerequisite: NMT 4090

**SECTION
II
STANDARDS OF CLINICAL
BEHAVIOR AND PRACTICE**



RADIATION SAFETY POLICY

Radiation Safety Policy

The student will have knowledge of the clinical sites Radioactive Materials license (RAM) and comply with regulations.

The student will follow appropriate radiation safety procedures:

- 1) employ personnel monitoring devices
- 2) review monthly personnel exposure records in regard to maximum permissible dose (MPD)limits
- 3) keep exposure as low as reasonably achievable using appropriate protection parameters (ALARA)
- 4) use proper methods for storage and disposal of radioactive materials
- 5) calibrate and check survey instruments
- 6) perform wipe tests and maintain records
- 7) perform decontamination procedures and maintain records

INTRODUCTION

Clinical experience is the opportunity for the Nuclear Medicine Technology student to practice and attain proficiency in diagnostic imaging and technical skills, as well as other hospital-based procedures. The hospital environment is used to make the transition from theoretical learning and laboratory practice to actual patient care and the development of interdisciplinary collaboration.

Clinical practice will help to develop skills in the following areas:

- Patient communication, safety, and therapeutic relationship
- Health care team communication and collaboration
- Nuclear Medicine Technology examination protocol (practices and procedures)
- Hospital organization and procedures
- Safe practices

The hospital or clinical setting is a learning environment. Your personal gains depend upon your actions, reactions, ambitions, assertiveness, and willingness to help and learn toward to application of the didactic training you have gained on campus utilizing the laboratory experience, simulation laboratory, and competencies you will perform on campus.

Your supervision and evaluation is achieved through the preceptor model; a technologist (preceptor) at the clinical site will provide ongoing and consistent evaluation during your clinical rotations. The hospital is a learning environment. Your personal gains depend on your desire to have a positive learning experience. You are a representative of the Molloy University Nuclear Medicine Technology Program while engaged in clinical education sites. Clinical rotations are the beginning of your professional life.

PHYSICAL EXAM AND IMMUNIZATION RECORDS/CASTLEBRANCH

All students are required to complete the ALLIED HEALTH SCIENCES PHYSICAL FORM and submit this completed forms through CASTLEBRTANCH, along with copies of blood test results with titers, at specified times, and prior to the start of clinical rotations. Any student who does not provide the required health clearance documentation will not be allowed to attend clinical courses until all the requirements are completed. Clinical rotations also require screenings, immunizations, and blood titers for certain diseases. You will have to arrange for required screenings, immunizations, and blood titers prior to beginning clinical rotations each school year. In some instances, a chest x-ray may be also required.

Students are also subject to any additional requirements that may be requested for attendance at any of the clinical facilities used during the school year. These requirements will be specified after the clinical placements have been determined and may include additional laboratory, diagnostic, and/or drug screenings, plus a criminal background check (as required by that institution).

Students are required to decide to complete the additional requirements and to have the appropriate documentation sent, as directed, to the specified receiving agency (Nuclear Medicine Technology Program and/or Clinical Affiliate). If a criminal background check, physical examination, drug test, and/or lab data uncovers information, which would preclude student participation, the student will not be permitted to undertake that given activity. The Clinical Coordinator, in consultation with the Program Director, will review the nature of the situation with the student. The student will be informed when, and if, clinical rotations may be resumed. Students are required to purchase (at their own expense) to

purchase a CASTLEBRANCH account to maintain these records electronically. Compliance with CASTLEBRANCH requirements is mandatory. To set up an account and place an order, go to castlebranch.com the package code for the NMT program is OX49. Follow the directions, for the help desk call 1(888) 723-4263, 8am-8pm EST Monday-Thursday, 8am-6:30pm EST Friday.

STUDENT HEALTH INSURANCE

All Molloy University students are required to either purchase health insurance through the University or provide proof of equivalent insurance. This is a university-based policy for all full-time students.

STUDENT INJURIES OR ILLNESS WHILE ATTENDING CLINICAL

All incidents involving student illness or injury during a clinical rotation are to be reported to the Clinical Coordinator, as soon as possible, via email. The Clinical Coordinator will communicate all incidents to the Program Director.

The student should be seen for emergency care and needle sticks as recommended by the covering clinical faculty. This does not include routine care for colds, flu, or other routine medical care. All paperwork required by the clinical site must be completed. Treatment at a clinical site's Emergency Room may incur a financial obligation for the student.

NON-EMPLOYEE POLICY

Students must not complete clinical coursework while in the employee status at a clinical affiliate. Students shall not receive any form of remuneration in exchange for work they perform incident to their clinical training. Students must not be used to substitute for clinical, instructional, or administrative staff.

BLS CERTIFICATION

All students are required to have current American Heart Association Basic Life Support for Healthcare Providers (BLS) certification. Students will not be allowed to attend clinical rotations if this certification has either not been obtained or has expired. An original signed BLS certification card must be presented to the Clinical Coordinator to complete this requirement. See CastleBranch CPR requirements (pg. 49).

NUCLEAR MEDICINE TECHNOLOGY IN A CULTURALLY DIVERSE WORLD

Nuclear Medicine Technology Practitioners need to become informed about, and sensitive to, culturally diverse subjective meanings of health, illness, caring, and healing practices. A transcultural care perspective is now considered essential for healthcare professionals to deliver quality care to all clients. Working with clients (patients) of different cultural beliefs provides the opportunity to enrich healthcare workers' lives through a respectful understanding of the differences of others.

Kittler and Sucher (1990) suggest a four-step process to improve cultural sensitivity:

1. Become aware of one's own cultural heritage. Technologists should identify his/her own cultural values and beliefs. For example, does the healthcare worker value stoic behavior in relation to pain? Are the rights of the individual valued over cultural (values, practices, and beliefs) can a person be ready to learn about another's individual perspective?
2. Become aware of the clients' culture as described by the client. It is important to avoid assuming that all people of the same ethnic background have the same culture. When the technologist has knowledge of the client's culture, mutual respect between client and technologist is more likely to develop.
3. Become aware, from the client, of adaptations made to live in the North American culture. During

this interview, the technologist should identify the client's preferences in health practices, diet, hygiene, and so on.

4. Form a technologist protocol care plan with the client that incorporates his or her culture. In this way, cultural values, practices, and beliefs can be incorporated with care and judgment.

THE CLINICAL PRECEPTOR MODEL

The Clinical Preceptor Model is used for clinical training by healthcare programs across the country. A preceptor is a person, generally a staff technologist or supervisor, who teaches, counsels, inspires, and acts as a role model for the student. This person supports the growth and development of an individual (the novice) for a fixed and limited amount of time. The careful pairing of a novice with an experienced, educated staff technologist in the clinical setting provides an environment of nourishment and growth for the novice and often results in recognition and reward for the preceptor.

We determined that this model has the following characteristics that we want to use:

1. The students do their clinical rotations by being paired (one student typically with one staff person) with a staff member (referred to as a clinical preceptor) who has a normal patient load assignment.
2. A limited amount of supervision is provided by the University through the use of its classroom and faculty/clinical educators who visit the facility
3. At first the student primarily observes the staff member perform patient care procedures, but soon after, gradually begin assisting the staff member with the accomplishment of their patient load. The students are eventually able to take and correctly accomplish the patient care assignment.
4. Only one or two students are likely to be scheduled per shift at any one time.
5. Students have to come for an 8-hour shift.
6. The students are more like apprentices, vs students' formal instruction.

Goals for the Student:

Students are required to complete clinical hours as required by the accrediting agency guidelines and the Molloy University Nuclear Medicine Technology Program. Make a smooth transition from the student level role to an entry-level competent Nuclear Medicine Technologist.

Goal for the Clinical Affiliate:

Clinical site staff technologists are required to contribute to the learning process of Nuclear Medicine Technology students, which will ensure the preparation of competent graduate Nuclear Medicine Technologists. The clinical site provides an opportunity for selected Nuclear Medicine Technology technologists to gain experience in the role of preceptor. They assist in the transition of new graduates when they enter the job market.

RESPONSIBILITIES OF THE MOLLOY UNIVERSITY NUCLEAR MEDICINE TECHNOLOGY PROGRAM

The Clinical Coordinator organizes and oversees the daily operations of clinical education under the direction of the Program Director. Duties include, but are not limited to:

- coordinating student placements at clinical sites
- evaluating and tabulating students' clinical forms and attendance sheets
- mentoring, counseling and supervising students
- locating and investigating additional clinical sites
- monitoring and keeping in contact with current clinical sites by visitation, telephone and correspondence regarding updates, student progress and changes in policy

RESPONSIBILITIES OF THE MOLLOY UNIVERSITY NUCLEAR MEDICINE TECHNOLOGY STUDENT

Each facility is governed by a set of policies and procedures; you are to follow the guidelines of the clinical facility. These are always kept current and accessible to students. If any questions arise as to matters related to policy or procedure, please refer to these manuals. The student will:

- A. perform patient care under supervision a preceptor assuming an increasing level of responsibility on a daily basis.
- B. notify clinical affiliate preceptor and Program Director/Clinical Coordinator if going to be tardy or absent in a timely and appropriate manner.
- C. adhere to the Molloy University NMT student dress guidelines by displaying a professional appearance when in clinical facilities.
- D. review necessary theory and clinical content to maximize safety and performance.
- E. consult with Molloy University Clinical Coordinator at designated intervals and as needed.
- F. participate in on-going communication with preceptor and Molloy University faculty.
- G. participate in the evaluation of the clinical site.
- H. conform to all policies and procedures particular to the clinical facility
- I. every patient has the right to privacy (HIPAA). As students you will have access to personal, patient information. You must respect the patient's right to privacy. You should not discuss any patient's condition with anyone who is not professionally involved with the patient's care.
- J. when determining appropriate behavior, do not always copy fellow practitioners. It is the responsibility of the student to follow acceptable practice at any assigned site.
- K. promoting harmonious working relationships with the clinical site personnel through a professional and dignified posture
- L. using all equipment and materials responsibly, correctly and safely
- M. observing and assisting the clinical staff
- N. attending and participating in all scheduled clinical activities
- O. consulting with Clinical Affiliate Supervisors and/or program faculty for assistance with problems
- P. participating in the development of an individualized clinical education plan
- Q. maintaining an accurate record of clinical examinations/competencies
- R. recording the number and types of evaluations required during each academic semester
- S. striving to broaden his/her knowledge and background on clinical subject matters by reading the professional literature available and attending conferences and seminars
- T. incurring all travel costs and expenses relative to clinical attendance
- U. adhering to established policies and procedures in order to insure a harmonious learning environment for all students



Venipuncture and Radiopharmaceutical Administration Policy

PLEASE NOTE: The student may perform the actual venipuncture and/or oral administration of radiopharmaceuticals ONLY in institutions where technologists are allowed to administer radiopharmaceuticals and ONLY with the approval of the clinical supervisor and direct supervision by a certified and/or registered technologist.

The student will use Universal Precautions (glove usage) during radiopharmaceutical administration and venipuncture.

The student will identify procedure to be performed, verify physician approval, and identify radiopharmaceutical by label, dosage, and assay.

The student will identify the patient using two identifiers against patient request.

The student will ask female patients if she is or may be pregnant. Notify supervisor if patient is or may be pregnant.

The student will inform the patient the details of the procedure, radiopharmaceutical being administered, route of administration, and time frame between injection and procedure.

The student will obtain consent where required.

The student will screen patient for contraindications.

The student will perform proper patient preparation for route of administration.

The student will perform venipuncture administration by using proper tourniquet application, vein selection, needle placement, aseptic technique, and re-identify proper radiopharmaceutical by label.

The student will use existing venous access by choosing appropriate IV site for dose administration using aseptic technique and check for patency.

The student will dispose of supplies using Universal Precautions and following Radiation Safety Guidelines.

The student will use proper record keeping techniques regarding administration and disposal of

radiopharmaceuticals.

CASTLE BRANCH

Students are required to open (at their own cost) and comply with an electronic health record repository, Castle Branch, and comply with the requirements set forth in the Castle Branch application.

Molloy University forms must be used to document all physicals, vaccines, titers, CPR requirements, and drug testing before they will be admitted to a clinical setting.

CPR Certification

One of the following is required:

- American Heart Association BLS Provider course

OR

- American Red Cross Professional Rescuers course

OR

- American Red Cross BLS for Healthcare Providers course

Online courses are NOT acceptable.

The front and back of the card must be submitted at the same time and the “Holders Signature” line must be signed.

Temporary approval will be granted for 30 days with the submission of either a certificate of completion, or letter stating course completion from the provider. A new requirement will be created for you to upload your certification card within 30 days.

The renewal will be set for the **1st day of the month** that your certification expires.

MOLLOY UNIVERSITY

Clearance for Clinical Placements

In addition to other clinical clearance requirements (physical, vaccines, and titers) Allied Health Sciences' students must complete a drug test (Lab Corp) and initial background check through the program's approved vendor (CastleBranch), prior to participating in clinical learning experiences. Clearance requirements vary by clinical site and are subject to change at any time. Students are responsible for all costs associated with the drug test and background check, along with all other clinical clearance procedures. Students entering the clinical sequence of an Allied Health Sciences' program curriculum will be informed as to the timeline and deadline (August 15th) for completion of all clinical clearance requirements.

Students must be aware that clinical placement sites reserve the right to deny, in their sole discretion, a student's clinical placement based upon the results of the background check , drug screening, noncompliance with safety or vaccination requirements, or other site-specific requirements. Procedures related to clearance for clinical experiences are documented in each respective Allied Health Sciences' program student handbooks. The Molloy University Barbara H. Hagan School of Nursing and Health Sciences ("The School") is not responsible for the clinical ineligibility of any student for any reason, including but not limited to whether a history of conviction, potential drug use, or to other circumstances which were disclosed to the School of the University prior to the student's matriculation. If a student's clinical placement at a clinical site is denied, the school does not guarantee the availability of an alternative clinical placement. The School or University is under no obligation to affirmatively seek out additional clinical placement sites that may be willing to accept a student who has been denied a clinical placement. If a student cannot be placed in an established clinical site for any reason, including, but not limited to, a failed background check or drug test, clinical clearance, or other finding, he/she will not be able to complete the Allied Health Sciences' program and will therefore be removed and dismissed from the Allied Health Sciences' program.

NUCLEAR MEDICINE TECHNOLOGY PROGRAM CLINICAL GUIDELINES

CLINICAL ATTENDANCE POLICIES

- A. Students will attend clinics every scheduled day, for an 8-hour day.
- B. Clinical hours may vary according to hospital placement.
- C. Students who are not at clinic during the scheduled day and time will be assessed an absence period.
- D. After three absences all absences must be made up. All make-up time must be completed prior to the last week of the clinical rotation in order to complete the course.
- E. Make-up time is not scheduled to interfere with scheduled classes or clinical days. The Clinical Coordinator, in conjunction with the hospital affiliate, does the scheduling of make-up time.
- F. Absence periods may be excused or unexcused at the discretion of the Clinical Coordinator.
- G. Excused absences generally include illness with documentation or family crisis. Make-up time will be required.
- H. Students are required to send a weekly email of internship activities to the Program Director. Failure to do so prior to the next week of internship will result in a reduction of ½ grade point/week missed.

- I. Unexcused absence periods are assessed for:
- Two late arrivals
 - Failure to notify the Program Director or Clinical Coordinator of late arrival or absence **PRIOR** to the start of the clinical shift.
 - Failure to notify the clinical site of late arrival or absence **PRIOR** to the start of clinical shift.
 - Leaving clinic before designated time.
- Failure to e-mail progress reports of clinical activities to the program director each week
- J. Make-up time will be required for all absences.
- K. The student will lose one grade level for ONE unexcused absence. TWO unexcused absences will result in a failing grade.
- L. In severe weather follow Molloy University closures.
- M. Attendance must be documented daily and signed off weekly by the Clinical Supervisor or designee.
- N. Bereavement Absences-Students are granted a maximum of 3 absences for the death of an immediate family member, father, mother, sister, spouse, child, or brother: 2 absences for an extended family member, in-laws and grandparents. Special permission may be granted for others not described. All bereavement absence requests are to be in **writing and authorized** by the Program Director.

GENERAL STATEMENT ON CONDUCT

All students enrolled at Molloy University are expected to follow a code of behavior consistent with the high standards of the health professions and to uphold the reputation of the University. In addition, students will comply with the rules and regulations duly established within the school. Deviation shall constitute misconduct. This includes, but is not limited to:

- dishonesty, such as cheating, plagiarism or knowingly furnishing false information to the University
- forgery, alteration, or misuse of university documents, records, time sheets or identification
- violation of public law
- disruption of class or clinical session such as by use of abusive or obscene language
- insubordination (defined as "unwilling to submit to authority; disobedient; rebellious")
- inappropriate behavior at the clinic affiliate or on university premises
- being intoxicated or under the influence of illegal drugs while on clinical assignment or on university premises
- vandalism or stealing
- sleeping during a clinical assignment
- leaving a clinical assignment or room/area assignment without the supervisor's permission
- failure to notify Clinical Education Affiliate and the Clinical Coordinator of absence or lateness
- violation of any duly established rule or regulation

CLINICAL DRESS CODE

The goal of DRESS CODE is to direct the Nuclear Medicine Technology Program student towards a professional appearance and appropriate wardrobe in the clinical setting. Any alterations in APPEARANCE from this dress code may result in the student being sent home by department administrator, clinical supervisor and/or Clinical Coordinator. Students are required to wear white lab coats. * Clinical clothing must be clean and reflect a professional appearance during clinical rotations. Men are encouraged to wear ties. Clinical I.D. badges must be worn at all times to properly identify you as a Molloy University Nuclear Medicine Technology student. They can be purchased at any Staples or office supply store. Radiation badges will be provided to you by the Clinical Coordinator/Program Director and should be worn on the outside of the lab coat at chest level, a ring badge is to be worn on the ring finger of your dominant hand. Gloves (vinyl or rubber) shall be worn when handling radioactive material and when using universal precautions.

Due to the COVID 19 Pandemic it is mandatory for students to wear Fit Tested N-95 masks during clinical hours, eyewear is recommended.

Students will be charged \$25 per lost dosimetry badge.

Confine any jewelry to simple, non-swinging types that display a professional appearance. Tattoos and piercing should be covered or removed. No sandals, clogs or high tops, or open toed shoes permitted. Hair and beards must be clean and neatly trimmed. Fingernails should be kept neatly trimmed and short in length. No perfume or cologne may be worn. No gum chewing is permitted. The student must maintain a clean, neat, professional appearance at all times. The instructor may send a student home that is not properly attired. This will result in an unexcused absence.

*Scrubs may be worn under a lab coat only with the permission of the Clinical Supervisor at the site.

NON-COMPLIANCE WITH DRESS CODE

Any student found inappropriately attired will be dismissed from the clinical site immediately and appropriate disciplinary action determined by the Clinical Coordinator. Any clinical time missed due to dress code violation will be made up by the student at a later date. The Clinical Coordinator in cooperation with the Clinical Affiliate Supervisor will determine make-up time.

ADDITIONAL STUDENT RESPONSIBILITIES

STUDENT RESPONSIBILITIES

Students are required to hand in a completed health form to the Clinical Supervisor (at the site) prior to attending **all** clinical rotations. Refer to instructions on health form. Students should become familiar with the clinical site's policy and procedure manual including emergency disaster plans. The clinical site will schedule student lunch breaks. Students are responsible for proper completion of all assigned procedures. Any conflicts should be discussed with the clinical preceptor or supervisor. Students should not be idle. Time between examinations should be utilized to assist with the needs of the clinical site, to work on case reports, to study (**if permission is granted**) to complete requisite clinical packet documentation, to reprocess scans, to simulate studies, or review procedure manuals.

Students should conduct themselves in an ethical and professional manner at all times. Students are subject to dismissal for poor or apathetic performance, unsafe conduct, or any unprofessional behavior. **Weekly e-mails documenting clinical activities should be sent to the program director no later than Sunday evening, failure to do so will result in clinical grade reduction.**

Health care workers including nuclear medicine technologists (NMTs) care for patients that may have communicable diseases. NMTs prepare by wearing appropriate PPE. NMTs have the ethical obligation to care for patients and NMT students have that same obligation. Additionally, NMTs and student NMTs will not discriminate against any individual based on the perception that he or she has or is suspected of having an infectious or communicable disease.

When NMT students are assigned to a hospital unit that includes segregated infectious patients; the NMT students are expected to remain on the unit and complete their clinical assignments.

- Faculty and/or an associate dean will speak with NMT students who are concerned that they cannot remain in the clinical environment.
- NMT students unwilling to remain, or who insist on leaving the site will receive a withdrawal from the course.
- WA will be entered as long as the NMT student is currently passing the didactic portion of the course.
- The course must be repeated in a subsequent semester, as available.
- Withdrawal from the semester will be treated as any other course withdrawal. When the course is repeated, the NMT student must continue for the full semester and earn a grade.

Cellular telephone use is not permitted during clinical rotations, except during designated lunchtime and in the case of emergency. It is strongly suggested that cell phones be put in a locker if possible.

Due to the COVID 19 Pandemic it is mandatory for students to wear Fit Tested N-95 masks during clinical hours, eyewear is recommended.

CLINICAL ROTATIONS

Documentation and Evaluation

All required clinical forms and evaluation instruments would be provided to the student, and reviewed, by the Clinical Coordinator/Program Director. These forms include attendance records, competencies, clinical checklist, and a clinical site evaluation. Students must maintain a clinical daily log, which they will e-mail to the Program Director on a weekly basis. It is the responsibility of the student to keep the clinical documentation updated and to obtain required signatures. Failure to do so may result in a lowering of the final course grade.

All students are responsible for conducting themselves in a professional manner during any educational experience at a clinical affiliate and for demonstrating respect towards its personnel, patients, and families. Should a problem arise (personally, professionally, or medically), the student should immediately contact the clinical instructor and Program Director/Clinical Coordinator. It is our hope to make your clinical rotation as rewarding as possible.

PROFESSIONAL CONFIDENTIALITY - HIPAA

The importance of confidentiality cannot be overemphasized. It is mandatory that you adhere to all HIPAA (Health Insurance Portability and Accountability Act) standards. Discussion of patients must be limited to professionals involved in the patient's care and Nuclear Medicine Technology classes. At no time are patients to be discussed at breaks, on elevators, or in other inappropriate settings. Only patient's room numbers may be used on written work. Patient charts are confidential records and may not be photocopied.

SOCIAL MEDIA-ELECTRONICS & CELL PHONES

Absolutely no patient information can be used on social media sites such as YouTube, Facebook, MySpace, Snap chat, Twitter, etc. This information is available to everyone in the world who has Internet access, including Molloy University faculty and staff, as well as potential employers. Students are urged to take this into consideration when posting on these or other Internet networks. The best postings adhere to appropriate Internet etiquette and portray a professional network identity. The Nuclear Medicine Technology Program will take swift action to protect patient confidentiality with resultant dismissal of the student from the program if the student is found in violation of this mandate.

The use of a cell phone is only permitted during breaks and lunch periods.

SMOKING POLICY

All Affiliated Hospitals/Agencies have smoke-free and tobacco-free campuses for all employees, medical staff, students, volunteers, patients and visitors - both inside and outside of the facilities (including cars in the parking areas). No smoking or use of smokeless tobacco products is allowed while in uniform. The faculty, patients, and clinical preceptors should not be able to detect the smell of tobacco products on students while in the clinical setting. Students failing to follow the smoking policy will be sent home with an unexcused absence.

TRANSPORTATION TO CLINICAL AFFILIATES

The student will be responsible for his/her own transportation to and from agencies utilized for clinical experiences. It is necessary for students to have reliable transportation.

STATEMENT OF ETHICS AND PROFESSIONAL CONDUCT *

Code of Ethics for the Profession of Nuclear Medicine Technologists

PREAMBLE

The goal of this code of ethics is to promote excellence in patient care by fostering responsibility and accountability among nuclear medicine technologists. In so doing, the integrity of the profession of nuclear medicine technology will be maintained.

OBJECTIVES

1. To create and encourage an environment where professional and ethical issues are discussed and addressed.
2. To help the individual NMT resolve ethical issues.
3. To provide guidelines for individual NMT's regarding ethical behavior.

***See "Appendix C" for the full statement**

Nuclear Medicine Technology Program Clinical Affiliate List

As a Molloy University Nuclear Medicine Technology student, you will have first-hand experience with the latest imaging technologies and participate in clinical rotations at various affiliate hospitals, radiopharmacies, and imaging centers located primarily within, but not limited to, Long Island, Brooklyn, and New York City. The Program has established agreements with a variety of clinical education centers to maximize student exposure to multiple settings and to provide experience in applying nuclear medicine techniques. Students are responsible for providing their own transportation to clinical facilities. In most situations, personal transportation will be necessary.

<p>Mercy Medical Center</p> <p>(Catholic Health Services of Long Island)</p> <p>1000 North Village Avenue Rockville Centre, NY 11571</p>	<p>Affiliate Educational Supervisors</p> <p>Leigh Ann Russack, CNMT and Michael Sander, CT</p> <p>(516) 705-2127</p> <p>Emails: LEIGHANNE.RUSSACK@CHSLI.ORG MICHAEL.SANDER@CHSLI.ORG</p>
<p>South Shore University Hospital</p> <p>301 East Main Street Bayshore, NY 11706</p>	<p>Affiliate Educational Supervisors</p> <p>Yair Chervony, CNMT, RT (N) and James Joos, RT(R)(CT)</p> <p>(631) 968-3180</p> <p>Emails: ychervony@northwell.edu jjoos@northwell.edu</p>
<p>Good Samaritan Hospital Medical Center (Catholic Health Services of Long Island)</p> <p>1000 Montauk Highway West Islip, NY 11795</p>	<p>Affiliate Educational Supervisors</p> <p>Janet Colloca, CNMT and Doreen Randazzo, CT</p> <p>(631)376-3349</p> <p>Emails: JANET.COLLOCA@CHSLI.ORG DOREEN.RANDAZZO@CHSLI.ORG</p>

<p>Long Island Jewish Medical Center (Northwell Health) 270-05 76th Avenue New Hyde Park, NY 11040</p>	<p>Affiliate Educational Supervisors Fritz Leveque, CNMT and Jacob Kollanethu, CNMT(Cardiology) (718)470-7080 Emails: FLeveque@northwell.edu JKollanethu@northwell.edu</p>
<p>Mount Sinai South Nassau One Health Way Oceanside, NY 11572</p>	<p>Affiliate Educational Supervisors Fay Hamilton, CNMT and Amrita Maniram, CT (516)632-3908 Emails: fay.hamilton@snch.org amrite.maniram@snch.org</p>
<p>Mount Sinai Medical Centre 1 Gustave Levy Place New York, NY 10029</p>	<p>Affiliate Educational Supervisors Eric Mayott, CNMT, Krista Demers CNMT (Cardiology), Ahmed Ayesh, CT, and Vanessa DeSouza, CNMT (PET/CT) (212)241-7775 Emails: ERIC.MAYOTT@MOUNTSINAI.ORG KRISTA.DEMERS@MOUNTSINAI.ORG AHMED.AYESH@MOUNTSINAI.ORG VANESSA.DESOUZA@MOUNTSINAI.ORG</p>
<p>New York–Presbyterian Queens 56-45 Main Street Flushing, NY 11355</p>	<p>Affiliate Educational Supervisors Megan Heath, CNMT and John LePurc, CT (718)670-1075 Emails: johnlepurc@nyp.org; mee9029@nyp.org</p>

<p>North Shore University Hospital (Northwell Health)</p> <p>300 Community Drive Manhasset, 11030</p>	<p>Affiliate Educational Supervisor Man-Wei Liu, CNMT</p> <p>(516)562-4406</p> <p>Email: mliu@northwell.edu</p>
<p>St. Francis Hospital (Catholic Health Services of Long Island)</p> <p>100 Port Washington Boulevard Roslyn, NY 11576</p>	<p>Affiliate Educational Supervisor Ryan McGoey</p> <p>(516)562-6513</p> <p>Email: RYAN.MCGOEY@CHSLI.ORG</p>
<p>RLS (USA) Radioisotope Life</p> <p>80 East Seaview Blvd. Port Washington, NY 11050</p>	<p>Affiliate Educational Supervisor Richard Osnard, PharmD</p> <p>(516)626-2779</p> <p>Email: RICHARD.OSNARD@RLS.BIO</p>
<p>NYU Langone Long Island Hospital</p> <p>259 First Street Mineola, NY 11501</p>	<p>Affiliate Educational Supervisor Juan Aranalde, RT (N)</p> <p>(516)663-2778</p> <p>Email: JUAN.ARANALDE@NYULANGONE.ORG</p>
<p>NYU Langone Long Island Hospital-Perlmutter Center (lower level)</p> <p>120 Mineola Blvd. Mineola, NY 11501</p>	<p>Affiliate Educational Supervisor Tanya Bernard, CNMT, RT (N), CT</p> <p>(516)663-2778</p> <p>Email: TANYABERNARD@NYULANGONE.ORG</p> <p>Affiliate Educational Supervisor</p>

<p>New York Cancer and Blood Specialists</p> <p>49 Route 347 Port Jefferson Station, NY 11776</p>	<p>AES- Abigail Pidoto, CNMT, (CT), RT(N)</p> <p>Email: apidoto@nycancer.com</p>
<p>Zwanger Pesiri Radiology Group</p> <p>80 Maple Avenue Smithtown, NY 11787</p>	<p>Affiliate Educational Supervisors</p> <p>Paula De Tiege, CNMT and Adam Alberti, CT</p> <p>(631)870-8765</p> <p>Emails: pdetiege@zwangerpesiri.com aalberti@zwangerpesiri.com</p>
<p>Lenox Hill Radiology & Medical Associates, PC</p> <p>9 Bond Street Brooklyn, NY 11201</p>	<p>Affiliate Educational Supervisors</p> <p>Francy Belizaire, CNMT and Alexander Vidal, CT</p> <p>(718) 961-9785</p> <p>Emails: francy.belizaire@radnet.com alexander.vidal@radnet.com</p>
<p>Lenox Hill Radiology & Medical Associates, PC</p> <p>8002 Kew Gardens Road Kew Gardens, NY 11415</p>	<p>Affiliate Educational Supervisors</p> <p>Alan Otto, CNMT and Jonathan Gao, CT</p> <p>(631) 275-4922</p> <p>Emails: alan.otto@radnet.com jonathan.gao@radnet.com</p>
<p>Maimonides Medical Center</p> <p>4802 10th Avenue Brooklyn, NY 11220</p>	<p>Affiliate Educational Supervisor</p> <p>Ortavia Jackson, CNMT</p> <p>(718)283-7130</p> <p>Email: OJackson@maimonidesmed.org</p>

<p>Maimonides Cancer Center Alliance Healthcare Radiology</p> <p>6300 8th Avenue Brooklyn, NY 11220</p>	<p>Affiliate Educational Supervisor</p> <p>Chinwe Ogbonna, CNMT, PET, RT (CT), MR(N) (718) 765-2718</p> <p>Email: COgbonna@maimonidesmed.org</p>
<p>Memorial Sloan Kettering Medical Center (MSKCC)</p> <p>1275 York Avenue New York, NY 10065</p>	<p>Affiliate Educational Supervisor</p> <p>Polina Khersonskaya</p> <p>(212) 639-7375</p> <p>Email: khersonp@mskcc.org</p>
<p>NY Presbyterian Hospital/Columbia Center</p> <p>177 Fort Washington Ave. New York, NY 10032</p>	<p>Affiliate Educational Supervisor</p> <p>Emanuel Rodriguez</p> <p>(212)305-8032</p> <p>Email: erodriguez6286@gmail.com</p>
<p>New York Cancer and Blood Specialties</p> <p>1 Delaware Drive New Hyde Park, NY 11042</p>	<p>Affiliate Educational Supervisor</p> <p>Roger Vance, CNMT (CT), RT(N)</p> <p>(516)336-5255</p> <p>Email: rvance@nycancer.com</p>
<p>New York Cancer and Blood Specialists</p> <p>365 East Main Street Patchogue, NY 11772</p>	<p>Affiliate Educational Supervisor</p> <p>Connor Leigh, CNMT,(CT),RT (N) and Elizabeth Dillion, CNMT,(CT),RT(N)</p> <p>(833) 269-4624</p> <p>Email: cleigh@nycancer.com edillon@nycancer.com</p>

<p>Zwanger Persiri Radiology Group</p> <p>126 Hicksville Road, Massapequa, NY 11758</p>	<p>Affiliate Educational Supervisors</p> <p>Kaitlin Hubbard (Harris)CNMT and Amanda Hurvath, CT (631) 798-4242 Ext 3039</p> <p>Email: http://KHUBBARD@ZWANGERPESIRI.COM http://AHURVATH@ZWANGERPERSIRI.COM</p>
<p>NYP Weill Cornell</p> <p>525 East 68th New York, NY 10065</p>	<p>Affiliate Educational Supervisors</p> <p>Brett Muench, CNMT and Jorel Rosado, CT</p> <p>(212) 746-4574</p> <p>Email: brm9189@nyp.org</p>
<p>Stony Brook University Medical Center</p> <p>101 Nicolls Road Stony Brook, NY 11794</p>	<p>Affiliate Educational Supervisors</p> <p>Jodi Lemarie, CNMT, PET and Andrew Adams, CT (631) 638-2499</p> <p>Emails: Jodi.Lemarie@stonybrookmedicine.edu Andrew.Adams@stonybrookmedicine.edu</p>

Specific contact information will be provided to students during pre-clinical orientation at each rotation.

CLINICAL EDUCATION ELIGIBILITY

In order to be assigned to a Clinical Affiliate Site, the student must meet the following requirements or obligations:

Maintain good academic standing in the Department of Allied Health Sciences (refer to the “Academic Policies” section of this Student Handbook) provide and maintain proof of certification in adult cardiopulmonary resuscitation (CPR) provide a current health certificate from a certified physician indicating that the student is in good health. The document should include a description of any physical disability that may require monitoring during the student's course of study. If a disability interrupts the student's course of study, it should be discussed with the Program Director/Clinical Coordinator. Satisfy all immunization requirements and obtain clearance from University Health Services prior to commencing or resuming participation in didactic, laboratory and clinical courses. Failure to meet these health requirements may result in the delay of attending classes, laboratory sessions and clinical (with associated make-up time), the failure of these courses and dismissal from the Program.

POLICIES GOVERNING CLINICAL EDUCATION SCHEDULING

The purpose of clinical education is to correlate didactic knowledge with practical skills. Although competency-based, clinical education under the supervision of a Registered Nuclear Medicine Technologist will be required for all students.

The total number of students assigned to any clinical site shall be determined by the Program Director/Clinical Coordinator in compliance with the recommendation from the Joint Review Committee on Nuclear Medicine Technology, and in coordination with individual Clinical Affiliate Supervisors.

The student is subject to all rules and regulations of the clinical site. The Clinical Affiliate Preceptor reserves the right to suspend or terminate a student from participation in clinical education within their facility who does not maintain appropriate behavior or adhere to the responsibilities of the student as outlined. (Refer to "Responsibilities of the Student" section of this Student Handbook).

If a student is suspended or dismissed from a clinical site, the student will be transferred to another site only if the Program Director/Clinical Coordinator deems this action appropriate. The Clinical Coordinator in coordination with the Program Director may initiate the procedure for dismissal from the program. The Committee on Academic and Professional Standing makes the recommendation to the Dean for final action regarding student dismissals.

CLINICAL SITE ASSIGNMENT

The Program Director/Clinical Coordinator determines student schedules and assignments at Clinical Affiliate Sites. Assignments are intended to provide the student with a comprehensive clinical education as deemed appropriate by the faculty and serves to correlate didactic knowledge with practical laboratory skills. Making sure all areas of Nuclear Medicine Technology are covered including PET, PET/CT, SPECT, SPECT/CT, radio pharmacy, Nuclear Cardiology and General Nuclear Medicine.

Students' clinical assignments will be based on:

- Students' experience and competency level
- Students' clinical education needs, directed toward reaching entry-level nuclear medicine technologist competency status
- Site availability
- Students' preference

Any student requesting changes in the clinical schedule must submit written request along with justification for the change to the Program Director/Clinical Coordinator. A decision will be made based on the criteria outlined above. Clinical schedule changes should not cause a disruption to the clinical sites under any circumstance.

Commuting time and costs are not primary determining factors for clinical placements and are borne solely by the student.

STATEMENT TO CLINICAL AFFILIATES

The following information is provided to clinical affiliates directly by Nuclear Medicine Technology students, when they initially arrive at new clinical rotations. Students are to provide this documentation to the clinical affiliate upon request.

_____, is a student currently enrolled in the Nuclear Medicine Technology program at Molloy University and has fulfilled the following requirements:

- Infection Control Training
- Hospital Fire and Safety training
- Confidentiality Policy and HIPAA Training
- Hepatitis B Vaccine Information
- Health Certificates (on file in the Allied Health Sciences Department)
- Malpractice Insurance Certificate (available upon request)
- OSHA training

HOSPITAL JOB ACTIONS OR STRIKES

Whenever a strike or job action occurs at an assigned clinical site, the student will leave the assignment immediately and report to the Clinical Coordinator for further instruction.

At no time should a student attempt to cross a picket line to enter a Clinical Affiliate Site.

JURY DUTY

Being selected for jury duty is a civic responsibility in which Molloy University encourages students to participate. However, any clinical time missed while performing jury duty will need to be made up by the end of the semester. Proper documentation of jury duty must be provided to the Clinical Coordinator.

Please be advised that Molloy University cannot intervene on the student's behalf regarding a summons for jury duty.

INCIDENT REPORTS AT A CLINICAL AFFILIATE SITE

When a student is injured or involved in an incident during a clinical rotation, he/she will:

1. Report immediately to his/her Clinical Affiliate Preceptor/Supervisor and follow departmental protocol.
2. Present a note to the Program Director/Clinical Coordinator from the Emergency Room physician, University Health Services physician, or a family physician stating when the student may resume education.
3. An incident report should be completed at the clinical site where the exposure occurred and should include the following details:
 - A. type of exposure
 - B. the hepatitis or HIV status of the patient if known, if unknown the clinical supervisor should contact the attending physician and request serologic testing of the patient

The student should submit a copy of the incident report and/ or copy of treatment received within a week of the exposure. The NMT Program Director or Clinical Coordinator should be informed promptly after the incident occurred.

If a patient is injured while in a student's care, the student should make sure that the patient is safe and then report the incident to the Clinical Affiliate Supervisor to review departmental protocol. Prior to leaving the site, the student must fill out an incident report and provide a copy to the Program Director/ Clinical Coordinator for documentation.

IMMUNIZATIONS/INFECTIOUS DISEASES

Should a student be diagnosed as having an infectious disease, he/she must report such diagnosis to the Program Director/Clinical Coordinator and the Clinical Affiliate Supervisor. If the student is on clinical assignment, the Clinical Affiliate Supervisor will inform the student of the hospital's infection control procedure. After the illness, the student must present a physician's note to the Clinical Coordinator stating when the student may resume his/her education.

PROCEDURE FOR FILING GRIEVANCE BY FACULTY

- A. A grievance shall first be addressed informally by the faculty member/grievant, the Faculty President and the Vice-President for Academic Affairs. If they are unable to resolve the matter, the formal grievance process shall be initiated.
- B. The faculty member with a perceived cause for grievance must submit a written statement of intent to grieve to the Faculty President within thirty (30) days following the date she/he first knew, or reasonably should have known, as determined by the Faculty President in consultation with the Faculty Council, of the matter being grieved. The written grievance statement must include the following:
 1. The grievant name, including academic title and department.
 2. A brief description of the grieved act and the date on which it occurred.
 3. The name and title of the person or action being grieved, if known. The term "person" shall not include the "Board of Trustees" or the "administration" of the University.
 4. A statement indicating the remedy sought by the grievant.
 5. The signature of the grievant.

See the Molloy University *Faculty Handbook* for complete feature.

APPENDIX A

PATIENTS' BILL OF RIGHTS

We consider you a partner in your hospital care. When you are well informed, participate in treatment decisions and communicate openly with your doctor and other health professionals, you help make your care as effective as possible. This hospital encourages respect for the personal preferences and values of everyone.

While you are a patient in the hospital, your rights include the following:

- You have the right to considerate and respectful care.
- You have the right to be well informed about your illness, possible treatments and likely outcome and to discuss this information with your doctor. You have the right to know the names and roles of people treating you.
- You have the right to consent to or refuse a treatment, as permitted by law, throughout your hospital stay. If you refuse a recommended treatment, you will receive other needed and available care.
- You have the right to have an advance directive, such as a living will or health care proxy. These documents express your choices about your future care or name someone to decide if you cannot speak for yourself. If you have a written advance directive, you should provide a copy for your family and your doctor.
- You have the right to privacy. The hospital, your doctor, and others caring for you will protect your privacy as much as possible.
- You have the right to expect that treatment records are confidential unless you have given permission to release information or reporting is required or permitted by law. When the hospital releases records to others, such as insurers, it emphasizes that the records are confidential.
- You have the right to review your medical records and to have the information explained except when restricted by law.
- You have the right to expect that the hospital will give you necessary health services to the best of its ability. Treatment, referral, or transfer may be recommended. If transfer is recommended or requested, you will be informed of risks, benefits, and alternatives. You will not be transferred until the other institution agrees to accept you.
- You have the right to know if the hospital has relationships with outside parties that may influence your treatment and care. These relationships may be with educational institutions, other health care providers or insurers.
- You have the right to consent or decline to take part in research affecting your care. If you choose not to take part, you will receive the most effective care the hospital otherwise provides.
- You have the right to be told of realistic care alternatives when hospital care is no longer appropriate.
- You have the right to know about hospital rules that affect you, your treatment, charges, and payment methods. You have the right to know about hospital resources, such as patient representatives or ethic committees that can help you resolve problems and questions about your hospital stay and care.
- You have responsibilities as a patient. You are responsible for providing information about your health, including past illnesses, hospital stays and use of medicine. You are responsible for asking questions when you do not understand information or instructions. If you believe you can't follow through with your treatment, you are responsible for telling your doctor.
- This hospital works to provide care efficiently and fairly to all patients and the community. You and your visitors are responsible for being considerate of the needs of other patients, staff and the hospital. You are responsible for providing information for insurance and for working with the hospital to arrange payment, when needed.
- Your health depends not just on your hospital care but, in the long term, on the decisions you make in your daily life. You are responsible for recognizing the effect of lifestyle on your personal health.
- Hospitals serve many purposes. They work to improve peoples' health; treat people with injury and disease; educate doctors, health professionals, patients, and community members and improve understanding of health and disease. In carrying out these activities, this institution works respect your values and dignity.

Appendix B
COMPETENCY LIST

See pages 84-106

Appendix C

Code of Ethics

Source: Retrieved from <http://snmmi.org>

Nuclear Medicine Technologists, as Certificants of the health care profession, must strive as individuals and as a group to maintain the highest of ethical standards.

The principles (SNMTS Code of Ethics) listed below are not laws, but standards of conduct to be used as ethical guidelines by nuclear medicine technologists. These Principles were adopted by the Technologist Section and the Society of Nuclear Medicine at the 2004 Annual Meeting. They are the standards of conduct to be used as a quick guide by nuclear medicine technologists.

Principle 1: The Nuclear Medicine Technologist will provide services with compassion and respect for the dignity of the individual and with the intent to provide the highest quality of patient care.

Principle 2: The Nuclear Medicine Technologist will provide care without discrimination regarding the nature of the illness or disease, gender, race, religion, sexual preference or socioeconomic status of the patient.

Principle 3: The Nuclear Medicine Technologist will maintain strict patient confidentiality in accordance with state and federal regulations (HIPPA).

Principle 4: The Nuclear Medicine Technologist will comply with the laws, regulations, and policies governing the practice of nuclear medicine.

Principle 5: The Nuclear Medicine Technologist will continually strive to improve their knowledge and technical skills.

Principle 6: The Nuclear Medicine Technologist will not engage in fraud, deception, or criminal activities.

Principle 7: The Nuclear Medicine Technologist will be an advocate for their profession.

APPENDIX D

Technical Standards

A Nuclear Medicine Technologist is typically employed in a hospital or clinic or in a mobile service to provide diagnostic procedures and direct patient care. Clinical and laboratory assignments for students enrolled in nuclear medicine technology programs require certain physical demands that are the technical standards of admission.

1. Sufficient visual acuity to read nuclear medicine orders & patient charts, observe conditions of the patient & evaluate images.
2. Sufficient auditory perception to receive verbal communication from patients and members of the healthcare team to obtain and record an accurate patient history and to assess the health needs of people through the use of monitoring devices such as intercom systems, cardiac monitors, respiratory monitors, fire alarms, etc.
3. Sufficient gross and fine motor coordination to respond promptly and to implement skills related to the performance of nuclear medicine procedures, such as positioning and transporting patients and obtaining diagnostic images. NMT's must be able to manipulate equipment in order to achieve diagnostic images.
4. Sufficient communication skills (verbal, reading, writing) to interact with individuals and to communicate their needs promptly and effectively, as may be necessary in the patient's/client's interest, collaborate with physicians and other members of the health care team, and provide an oral or written summary of the technical findings to the physician for medical diagnosis.
5. Sufficient intellectual and emotional function to plan and implement quality patient care, analyze technical information, and use independent judgment in recognizing the need to extend the scope of the procedure according to the diagnostic findings.

Examples of specific technical standards the nuclear medicine technology student must be able to meet are:

- Lift, transfer and/or assist patients from wheelchair/stretcher to examination table. Lift, move, reach, push or pull equipment.
- Manual dexterity and ability to bend/stretch
- Have full use of both hands, wrists, and shoulders
- Work standing on their feet 80% of the time
- Adequately view and process images, including color distinctions and shades of gray
- Organize and accurately perform the individual steps in a nuclear medicine procedure in the proper sequence
- Demonstrate effective interpersonal relation skills, including patient instruction
- Interact compassionately and effectively with the sick or injured
- Read and extract information from the medical chart or patient requisitions
- Explain the clinical study verbally and/or in writing
- Start an intravenous line and inject radioactive materials



APPENDIX E

POLICY ON CLINICAL EDUCATION ASSIGNMENTS

The following sites are approved for the clinical rotation of students enrolled in the Nuclear Medicine Technology Program at Molloy University:

1. Good Samaritan Hospital Medical Center
2. Long Island Jewish Medical Center
3. Mercy Medical Center
4. Maimonides Medical Center
5. Mount Sinai Hospital
6. NYP/ New York Hospital Queens
7. North Shore University Hospital
8. St. Francis Hospital
9. Zwanger Persiri Radiology Group (2 sites)
10. Lenox Hill Radiology (2 sites)
11. NYU- Winthrop University Hospital
12. RLS/GE Radiopharmacy
13. JT Mather Memorial Hospital
14. Mt. Sinai/South Nassau Hospital
15. Columbia Presbyterian Medical Center
16. South Shore University Hospital
17. Alliance Imaging
18. MSKCC
19. Stony Brook University Medical Center
20. NYP Weill Cornell
21. NYU- Perlmutter Center
- 22- NYCB Specialists (3 Sites)

The Nuclear Medicine Technology Program continually strives to provide quality clinical affiliate sites for students. Because of this, clinical sites may be added or removed.

I understand that I will be assigned to clinical affiliate sites in contractual agreement with the Program and that I am responsible for travel and expenses.

Name (print): _____

Signature: _____

Date: _____



APPENDIX F

POLICY REGARDING ADVANCED PLACEMENT, TRANSFER OF CREDIT, AND CREDIT FOR EXPERIENTIAL LEARNING

The Molloy University Nuclear Medicine Technology Program does NOT:

- offer Advanced Placement options
- accept transfer of credit into the program for Nuclear Medicine courses specific to the Major
- provide credit for experiential learning

The Molloy University Nuclear Medicine Technology Program does:

- accept transfer of credit into the program for general education and related courses

Name (print): _____

Signature: _____

Date: _____



**January
APPENDIX G**

POLICY ON SERVICE WORK FOR STUDENTS

The Molloy University Nuclear Medicine Technology Program prohibits payment to students by clinical affiliate sites relative to required clinical rotation assignments. Employment by students enrolled in the Program may NOT interfere with the students' successful completion of established requirements.

Name (print): _____

Signature: _____

Date: _____



APPENDIX H

PERMISSION TO RELEASE INFORMATION

I agree that the Nuclear Medicine Technology Program may provide the following information, in addition to the University's designated "public information," to prospective employers:

- University/Program activities
- honors and awards
- general academic and clinical assessment
- recommendation for employment

Name (print): _____

Signature: _____

Date: _____



APPENDIX I

PERMISSION TO RELEASE REGISTRY EXAMINATION SCORES

I approve of the release of my most recent registry examination scores to the Nuclear Medicine Technology Program for statistical purposes only. Only composite results will be reported and all individual information will be kept confidential within the University.

Name (print): _____

Signature: _____

Date: _____



APPENDIX J

CONFIDENTIALITY POLICY

As a student enrolled in the Molloy University Nuclear Medicine Technology Program, I agree to:

- remember at all times that the information within patient medical records is to be kept in the strictest confidence. Release of confidential information will result in failure of the directed clinical course.
- NOT discuss information from patient medical records or any information acquired about a patient, except as it is necessary in the working situation in a professional manner.
- NOT seek to obtain the medical records of friends, relatives, acquaintances, or information therefrom for any reason outside of requisite and approved professional medical care.
- NOT seek to obtain his/her own medical record information therefrom, except along established and appropriate channels which are outlined in the facility's policies.
- NOT photocopy any part of patient medical records without proper consent.
- NOT discuss hospital business, personnel, or members of the medical staff, except as is necessary in the working situation in a professional manner.

Name (print): _____

Signature: _____

Date: _____



APPENDIX K

DOCUMENTATION OF CLINICAL EDUCATION REQUIREMENTS FOR STUDENTS

_____, a Nuclear Medicine Technology student currently enrolled and in good standing, has successfully completed the following clinical education requirements:

- Infection Control and Blood Borne Pathogens Training
- Hospital Fire and Safety Training
- Confidentiality Policy and HIPAA Training
- Hepatitis B Vaccine Immunization
- Student Health Certificate (on file in the Department of Allied Health Sciences)
- Student Malpractice Insurance (Molloy University insurance certificate available upon request)

Please contact either of us directly with any questions or concerns at mfischer@molloy.edu/kmorrison@molloy.edu

Sincerely,

Marc Fischer
Program Director, Nuclear Medicine Technology

Kathleen Morrison
Clinical Coordinator, Nuclear Medicine Technology



APPENDIX L

ACKNOWLEDGMENT OF RECEIPT, UNDERSTANDING, AND AGREEMENT TO REMAIN IN COMPLIANCE WITH THE *Molloy University Nuclear Medicine Technology Program* **STUDENT HANDBOOK**

- I have received and thoroughly read the *Molloy University Nuclear Medicine Technology Program* **STUDENT HANDBOOK**
- I understand these policies and regulations and the responsibilities to be undertaken.
- I have had the opportunity to obtain clarification on these policies and regulations.
- I agree to comply with these policies and regulations.
- I understand that failure to comply with the established policies and regulations may result in dismissal from the program.

Name (print): _____

Signature: _____

Date: _____

MOLLOY UNIVERSITY
NUCLEAR MEDICINE TECHNOLOGY PROGRAM
CLINICAL OBJECTIVES STUDENT EVALUATION

STUDENT NAME: _____

AFFILIATE INSTITUTION: _____

DATES OF INTERNSHIP: _____

DATE OF EVALUATION: _____

CLINICAL SUPERVISOR: _____

1. INSTRUMENTATION	SATISFACTORY	NOT SATISFACTORY	NOT APPLICABLE
Gamma Camera:			
Perform field uniformity, special resolution and linearity checks			
Perform mechanical and safety checks			
Check photopeak adjustment and high voltage stability			
Perform SPECT center of rotation/correction			
Obtain and analyze images			
Monitor QC data for trends and differentiate source and possible cause of non-uniformities			
Maintain required records for quality control checks			
PET/CT Camera:			
Perform daily PET field uniformity with rod source			
Perform daily CT field uniformity with body and head phantoms			
Analyze QA data, interpret it, and log it appropriately			
Survey Meters:			
Perform reference checks and battery check daily			
Perform area surveys, wipe tests and leak tests on sealed sources			
Maintain adequate records			
Demonstrate the operation of survey meters while selecting proper settings			
Dose Calibrators:			
Perform accuracy and stability of constancy checks			
Ascertain linearity over entire range of radionuclide activity to be measured			
Check calibrator's response to geometrical variations			
Maintain records of procedures as required			
Uptake Probes:			
Calibrate with Cs-137			
Perform photopeak adjustments and stability checks			
Conduct a chi-square evaluation for reproducibility			
Determine FWHM of energy resolution			
Maintain all relevant documentation			
Scintillation Well Counter:			
Perform constancy and efficiency tests			
Maintain appropriate records			

Instrumentation section grade: _____ (20% of total grade)

2. RADIOPHARMACY	SATISFACTORY	NOT SATISFACTORY	NOT APPLICABLE
Understand and demonstrate proper record keeping of radiopharmaceuticals/ adjunct medications, and supplies			
Understand radiopharmaceutical and adjunct medication logs, inventory, storage and purchasing practices			
Perform and record results of wipe tests and surveys of radioactive shipments received and transported			
Understand the importance of maintaining adequate supplies of radiopharmaceuticals, adjunct medications, and other materials to ensure that the patient studies can be performed when necessary			
Understand appropriate sequencing of patient exams			
Assemble generator and position behind lead blocks			
Elute generator using aseptic technique			
Check the eluate for radionuclide purity and alumina breakthrough			
Select and identify the appropriate radiopharmaceutical and adjunct medications for procedure ordered			
Prepare the radiopharmaceutical compounds following the kit instructions			
Perform chromatography to ascertain tag/label accordingly			
Assist in labeling cells with radioisotope according to protocol			
Determine patient's dose based on age, weight, type of procedure, and calculate the amount of volume necessary for required procedure			
Draw up/assay to verify dose (within 10%) in dose calibrator. Use aseptic technique and follow radiation safety precautions			
Perform surveys of radionuclide shipments, work areas and patient rooms			
Become familiar with emergency procedures of the radiopharmacy			
Store radioactive and non-radioactive kits in appropriate areas			
Understand radioactive material waste segregation			
Understand bio-hazard waste disposal			
Understand non-bio-hazard waste disposal			
Maintain all appropriate disposal records			

Radiopharmacy section grade: _____ (20% of total grade)

3. PATIENT CARE / INFECTION CONTROL / RADIATION PROTECTION	SATISFACTORY	NOT SATISFACTORY	NOT APPLICABLE
Maintain good communication with patient - answer questions, listen to comments, be courteous with emphasis on patient comfort and in compliance with HIPAA regulations			
Verify patient identification and written orders for study and assist in scheduling			
Check for contra-indications for study and obtain pertinent history			
Provide proper instructions to patient on preparing for the procedure			
Demonstrate proper handwashing technique			
Practice universal precautions			
Understand and utilize respiratory/contact precaution devices			
Follow clinical site infection control policy			
Practice A.L.A.R.A			
Have knowledge of state, federal, and local regulations of the use of radioactive materials and comply with regulations and safety guidelines			
Employ personnel monitoring devices and reviews monthly exposure records			
Practices time/distance/shielding			
Perform room surveys, interpret results and maintain appropriate records			
Perform wipe tests and count samples in well counter, maintain appropriate records			
Understand radioactive waste disposal practices and maintain appropriate records			
Understand postings of appropriate signs in designated areas to comply with regulations			
Understand the method used in maintaining personnel exposure records			
Assist in the audit of laboratories prior to or following state, federal or local inspections			
Understand radioactive material spill procedures			
Assist during radioactive spill incidents, and monitor post cleanup			

Patient Care / Infection Control / Radiation Protection section grade: _____
(20% of total grade)

4. CASE CLINICAL	SATISFACTORY	NOT SATISFACTORY	NOT APPLICABLE
Assemble the proper materials including the appropriate radiopharmaceutical and adjunct medications			
Determine proper method and route of administration			
Evaluating and determining a suitable site for administration			
Reassuring the patient and lower their level of anxiety			
Disinfecting puncture site using aseptic technique			
Performing proper venipuncture technique			
Observing patients for possible reactions			
Discarding radioactive materials in appropriate waste containers while observing OSHA rules and regulations			
Perform appropriate record keeping duties, recording patient's name, activity, volume, lot, time, and prescription number			
Select and prepare instrument for procedure, selecting proper collimator			
Select imaging parameters and make necessary adjustments as needed			
Place patients in correct position to obtain required views			
Determine correct detector to patient distance			
Provide for proper patient care and comfort during procedure			
Recognize emergency situations: vital signs, IV, respiratory, etc.			
Check patient's clothing and linens for attenuation and contamination			
Indicate, locate and position appropriate anatomical landmarks for each view			
Recognize artifacts that are due to equipment malfunction and/or technical issues			
Maintain appropriate records necessary for procedure and record information relative to special circumstances			
Utilize acquisition and processing protocols			
Perform data manipulations and display results as per protocol			
Analyze data acquired and report results to physicians for interpretations			

Case clinical section grade: _____ (20% of total grade)

5. PROFESSIONALISM	SATISFACTORY	NOT SATISFACTORY	NOT APPLICABLE
Notifies the department regarding unforeseen absences			
Understand interaction with hospital staff for proper patient care			
Review department procedure manual and maintain appropriate records			
Wear appropriate attire and maintain a professional appearance at all times			
Become familiar with the department's policy and procedure manual including emergency disaster drills			
Be ethical and professional at all times and show sensitivity to others			
Establish and maintain a caring attitude towards patients			
Establish a rapport and be responsive to patient's needs and desires			
Work in a productive pace			
Use time wisely and not be idle. Time between duties should be utilized to work on case reports or study for NMT classes			
Show reliability in carrying out assignments			
Show the ability to follow instructions			
Accept constructive criticism and alter behavior accordingly			
Assess their work objectively and implement changes for improvement			
Exercise independent judgment while remaining within limits of competence			
Cooperate effectively with staff members/professionals			
Be punctual and have good attendance record			
Show a positive attitude and interest in work			
Demonstrate an understanding in performance of procedures			
Demonstrate problem solving abilities			
Maintain a clean/neat work area			
Show care for use of equipment and supplies			

Professionalism section grade: _____ (20% of total grade)

MOLLOY COLLEGE
 Allied Health Science Department
 NUCLEAR MEDICINE TECHNOLOGY
CLINICAL PERFORMANCE EVALUATION

(Please PRINT or TYPE)

CLINICAL SITE: _____

CLINICAL SUPERVISOR: _____ DATE: _____

STUDENT: _____

TYPE OF STUDY: _____ FINAL GRADE: _____

Sufficient evaluation of requisition: YES / NO

Adequate room preparedness: YES / NO

	1	2	3	4	N/A	COMMENTS
Radiopharmaceutical Preparation: (i.e.. correct isotope, chemical form)						
Dose calculation/ preparation:						
Instrumentation preparation:						
Patient/ Student - Tech Relationship:						
Patient Positioning:						
Equipment Handling:						
Film Identification: (i.e.. proper labeling of films)						
Radiation Protection:						
Required records/ reports completed (i.e...computer processing)						

GRADING: (1) = unacceptable (2) = major improvement needed (3) = minor improvement needed (4) = acceptable (N/A) = not applicable

(NOTE: A grade of (1) in any ONE area or a grade of (2) in any TWO areas is considered a failed procedure.)

CLINICAL INSTRUCTOR: _____

Signature

STUDENT: _____

Signature

MOLLOY UNIVERSITY PHLEBOTOMY STUDENT INTERNSHIP EVALUATION

The student intern:

- | | | |
|---|-----|----|
| 1. Is able to properly identify the site selection for intravenous access | YES | NO |
| 2. Is able to identify the proper injection supplies | YES | NO |
| 3. Is able to explain the procedure to the patient | YES | NO |
| 4. Uses aseptic technique | YES | NO |
| 5. Follows proper protocol for intravenous access: | | |
| Placement of tourniquet | YES | NO |
| Methods to enhance vessel access | YES | NO |
| Patient position | YES | NO |
| Selection of site | YES | NO |
| Needle position and injection technique | YES | NO |
| Assurance of free flow | YES | NO |
| Catheter/needle removal | YES | NO |

The total number of successful needle sticks was _____ out of

a possible number of _____.

STUDENT _____

EVALUATOR _____

DATES _____

MOLLOY UNIVERSITY
PET/CT Clinical Competency Evaluation Form

<u>STUDENT NAME:</u>	Meets Requirement	Does <u>Not</u> Meet Requirement	N/A
<u>PATIENT CARE:</u>			
Patient Identification/preparation/patient education/follow HIPAA regulations			
Evaluation of requisition for appropriateness of study/patient assessment/obtain appropriate patient history/follow HIPAA regulations			
Measurement of patient's blood glucose level/ evaluate implications of a high blood glucose level			
Diabetic patient preparation/ proper use of insulin (if required)			
Radiopharmaceutical selection and dose calculation/assaying of dose in dose calibrator			
Intravenous aseptic IV injection (if permitted)			
Employs proper radiation protection techniques			
Implements proper patient environment during the uptake phase/ understands and conveys the importance of patient relaxation, proper room lighting, non-stimulation, etc.			
Allows for appropriate wait/scan times			
<u>SYSTEM:</u>			
Equipment configuration and operation			
Perform the daily QC/evaluate results			
Correctly and safely operates the scanner and associated computer equipment to perform imaging procedure			
Positioning skills/use of immobilization devices (if required)			
CT acquisition parameters/ evaluation of effects on image quality and radiation dose			
Use of IV and oral contrast (if required)			
Image processing and evaluation/reconstruction and processing/archiving			
Evaluates scan for artifacts, misregistration, patient motion, or scanner malfunctions			
Properly completes films/records study/ presents study to physician for interpretation			
Performs study within a reasonable time frame			
Properly discharges patient			
Surveys/ performs wipe tests			

Study Performed: _____

Evaluator's Signature: _____

Clinical Site: _____

Comments:



Nuclear Medicine Technology

1. Introduction

Candidates applying for certification and registration are required to meet the Professional Education Requirements specified in the *ARRT Rules and Regulations*. *ARRT's Nuclear Medicine Technology Didactic and Clinical Competency Requirements* are one component of the Professional Education Requirements.

The requirements are periodically updated based upon a [practice analysis](#) which is a systematic process to delineate the job responsibilities typically required of nuclear medicine technologists. The result of this process is a [task inventory](#) which is used to develop the clinical competency requirements (see section 4 below) and the content specifications which serve as the foundation for the didactic competency requirements (see section 3 below) and the examination.

2. Documentation of Compliance

Verification of program completion, including Didactic and Clinical Competency Requirements and all degree-related requirements including conferment of the degree, will be completed on the Program Completion Verification Form on the ARRT Educator website after the student has completed the Application for Certification and Registration.

Candidates who complete their educational program during 2022 or 2023 may use either the *2017 Didactic and Clinical Competency Requirements* or the 2022 requirements. Candidates who complete their educational program after December 31, 2023 must use the 2022 requirements.

3. Didactic Competency Requirements

The purpose of the didactic competency requirements is to verify that individuals had the opportunity to develop fundamental knowledge, integrate theory into practice and hone affective and critical thinking skills required to demonstrate professional competence. Candidates must successfully complete coursework addressing the topics listed in the [ARRT Content Specifications](#) for the Nuclear Medicine Technology Examination. These topics would typically be covered in a nationally-recognized curriculum such as the SNMMI-TS Curriculum Guide for Educational Programs in Nuclear Medicine Technology. Educational programs accredited by a mechanism acceptable to ARRT generally offer education and experience beyond the minimum requirements specified in the content specifications and clinical competency documents.

4. Clinical Competency Requirements

The purpose of the clinical competency requirements is to verify that individuals certified by the ARRT have demonstrated competence performing the clinical activities fundamental to a particular discipline. Competent performance of these fundamental activities, in conjunction with mastery of the cognitive knowledge and skills covered by the certification examination, provides the basis for the acquisition of the full range of procedures typically required in a variety of settings. Demonstration of clinical competence means that the candidate has performed the procedure independently, consistently, and effectively during the course of his or her formal education. The following pages identify the specific procedures for the clinical competency requirements. Candidates may wish to use these pages, or their equivalent, to record completion of the requirements. The pages do NOT need to be sent to the ARRT.



4.2.1 General Patient Care

Candidates must be CPR certified and demonstrate competence in the remaining seven patient care procedures listed below. The procedures should be performed on patients whenever possible, but simulation is acceptable.

The abbreviation "e.g." is used here and in the remainder of this document to indicate examples but is not a complete list of all possibilities.

General Patient Care Procedures	Date Completed	Competence Verified By
CPR Certified		
Vital Signs – Blood Pressure		
Vital Signs – Pulse		
Vital Signs – Respiration		
Venipuncture		
Assisted Patient Transfer (e.g., Slider Board, Mechanical Lift, Gait Belt)		
Maintain and Care for Patient Ancillary Equipment (e.g., Pump, Collection Bag, Oxygen Delivery)		
ECG (e.g., Lead Placement and Recognition of Common Dysrhythmias)		

4.2.2 Quality Control Procedures

Candidates must demonstrate competence in all five quality control activities listed below.

Quality Control Procedures	Date Completed	Competence Verified By
SPECT Gamma Camera (Uniformity, Resolution, and Center of Rotation)		
Dose Calibrator (Constancy and Linearity)		
Well Counter/Uptake Probe (Energy Calibration)		
Survey Meter (Battery Check and Constancy)		
PET or PET/CT (Reference or Blank Scan)		

4.2.3 Diagnostic and Therapeutic Specific Requirements

Candidates must demonstrate competence in 25 different nuclear medicine procedures. Candidates should demonstrate the following skills when performing the procedures:



- verify patient identity;
- evaluate patient requisition and history;
- explain patient instructions;
- ensure proper preparation and care;
- select, secure, administer, and store the radiopharmaceutical;
- configure equipment and position patient;
- practice radiation safety;
- perform image processing and evaluation;
- send study for interpretation.

All procedures that are not simulated must be performed on patients.

4.2.3 Diagnostic and Therapeutic Specific Requirements (continued)

The 25 procedures to be performed are selected from the categories (cardiovascular, endocrine, etc.) listed in the table below. Candidates must select 16 of the 25 procedures from the categories as specified in the table. The remaining 9 procedures may be chosen from any category. The table indicates the procedures in each category and specifies the minimum number of procedures that must be performed in each category. One patient may be used for multiple procedures. However, each type of procedure may be used for only one competency. For example, if a patient has a parathyroid scan ordered and the candidate performs a planar and SPECT scan proficiently, it may be counted as two procedures. If only a SPECT scan is done, it may be counted as a parathyroid scan or SPECT scan but not both.

Category*	# Procedures in Category	# That Must Be Performed
Cardiovascular	4	2
Central Nervous System	4	0
Endocrine/Exocrine	4	2
Infection	2	0
Gastrointestinal	7	3
Genitourinary	2	1
Lymphatics	3	0
PET or PET/CT	7	1
Respiratory	3	2
Skeletal	3	2
SPECT or SPECT/CT	8	2
Therapy	5	1
Tumor	<u>3</u>	<u>0</u>
Subtotal		16
		<u>+9</u> electives from any category
Total	55	25

Example: Assume a candidate demonstrates competence in 3 cardiovascular procedures (myocardial perfusion-stress, myocardial perfusion-rest, and gated blood pool). This means that the candidate has fulfilled the cardiovascular requirement of 2 procedures and has also completed 1 elective.

* Note: The specific nuclear medicine procedures within each category are identified on the following two pages.



4.2.3 Diagnostic and Therapeutic Specific Requirements (continued)

Candidates must demonstrate competence in 25 different nuclear medicine procedures.

Nuclear Medicine Procedures (# of Required Procedures Appears in Parentheses)	Date Completed	Patient or Simulated	Competence Verified By
Cardiovascular (2)			
Amyloid Imaging			
Gated Blood Pool			
Myocardial Perfusion-Rest			
Myocardial Perfusion-Stress			
Central Nervous System (0)			
Cisternography: Routine			
Cisternography: CSF Leak			
Dynamic			
Shunt Patency			
Endocrine/Exocrine (2)			
Parathyroid			
Thyroid Uptake			
Thyroid Scan			
Thyroid Metastatic Survey			
Infection (0)			
WBC Imaging			
Other (e.g., Ga-67 citrate, F-18 FDG)			
Gastrointestinal (3)			
Gastroesophageal Reflux			
Gastric Emptying			
GI Bleed			
Hemangioma			
Hepatobiliary			
Liver/Spleen			
Meckel Diverticulum			
Genitourinary (1)			
Renal Cortical			
Renal Function			
Lymphatics (0)			
Lymphoscintigraphy: Breast			
Lymphoscintigraphy: Skin Lesion			
Lymphangiography			
PET or PET/CT (1)			
Bone			
Brain (F-18 FDG)			



Nuclear Medicine Procedures (# of Required Procedures Appears in Parentheses)	Date Completed	Patient or Simulated	Competence Verified By
Brain (Other)			
Cardiac (Myocardial Perfusion Imaging)			
Cardiac (Other)			
Tumor (F-18 FDG)			
Tumor (Other)			
Respiratory (2)			
Ventilation (Gas or Aerosol)			
Perfusion			
Quantitative			
Skeletal (2)			
Planar/Static			
Three-Phase			
Total/Whole Body			
SPECT or SPECT/CT (2)			
Bone			
Brain			
Liver			
Lung			
Parathyroid			
Renal			
Tumor (Neuroendocrine)			
Tumor (Other)			
Therapy (1)			
Thyroid: Ablation			
Thyroid: Hyperthyroidism			
Palliative Bone			
Other (e.g., Endocrine)			
Selective Internal Radiation Therapy (SIRT)			
Tumor (0)			
Adrenal			
Neuroendocrine			
Other (e.g., Ga-67 citrate)			

**MOLLOY UNIVERSITY
NUCLEAR MEDICINE TECHNOLOGY COMPETENCY LIST**

STUDENT NAME:	MEETS REQUIREMENT	DOES NOT MEET REQUIREMENT	N/A
<u>PROFESSIONALISM:</u>			
Practice in accordance with ethical standards, legal statutes and published standards of practice.			
Demonstrate professionalism befitting a health care provider			
Collaborate as a member of an interprofessional team			
Display respect for diversity			
Apply problem-solving, critical-thinking and decision-making strategies			
Evaluate published research studies and apply appropriate principles to improve evidence-based practice			
<u>PATIENT CARE:</u>			
Practice universal precautions			
Practice aseptic technique, inclusive of adhering to U.S. Pharmacopeia (USP) standards			
Assess patient status and vital signs			
Establish, verify and maintain vascular access			
Provide appropriate patient comfort, monitoring, and care before, during and after procedures			
Recognize and respond appropriately to unexpected and emergency situations			
<u>RADIATION SAFETY:</u>			
Maintain compliance with institutional radioactive materials license under supervision of an authorized user for radiation safety officer			
Maintain compliance with local, state and federal radiation safety regulations			

**MOLLOY UNIVERSITY
DIAGNOSTIC C.T. COMPETENCY EVALUATION FORM**

STUDENT NAME:	MEETS REQUIREMENT	DOES NOT MEET REQUIREMENT	N/A
<u>PATIENT CARE:</u>			
Identify contraindications to contrast media			
Evaluate vascular access for compatibility for IV contrast media injection			
Monitor patient for, and respond to, reactions to contrast media			
<u>RADIATION SAFETY:</u>			
Control access to the CT examination room during radiation exposure			
Ensure appropriate radiation protection of patient, family, and caregivers during procedure			
Practice ALARA principles thereby limiting the radiation exposure of the patient, public, fellow workers			
Document CT does report in accordance with institutional guidelines			
Recognize and respond to a dose alert or dose notification			
<u>Instrumentation and Quality Control:</u>			
Perform shutdown, power off, and restart of CT scanner			
Perform tube warm-up			
Perform the appropriate scanner quality control			
Document performance and results of all quality control testing according to quality control program procedures			
Analyze QC results and take appropriate corrective action(s) when necessary			
<u>DIAGNOSTIC IMAGING</u>			
Identify indications for CT imaging			
Instruct patient and family regarding preparation for CT imaging			
Identify the contrast media for a specific procedure			

	MEETS REQUIREMENT	DOES NOT MEET REQUIREMENT	N/A
Identify acceptable dose ranges for contrast media			

Identify the route of administration for contrast media			
Select appropriate flow rate for contrast media delivery according to imaging protocols			
Review and evaluate patient medical history in preparation for CT imaging			
Verify the written order and evaluate imaging appropriateness			
Verify the patient's identity prior to CT imaging			
Identify any contraindications including pregnancy and/or contrast allergy prior to CT imaging			
Explain the impact of patient preparation on the CT imaging			
Explain the imaging and patient involvement to the patient and family			
Position the patient appropriately for the procedure			
Ensure that artifact-producing objects have been removed from patient			
Select appropriate parameters (e.g. protocol and/or kV and/or mA) for the procedure			
Utilize iterative reconstruction and other approved techniques to reduce dose			
Prescribe the appropriate field of view and coverage for the procedure			
Administer contrast media in accordance with institutional guidelines			
Document the contrast media in accordance with institutional guidelines			
Utilize bolus tracking for contrast media administration to ensure peak enhancement			
Utilize physiologic gating to optimize image quality			
Perform retrospective reconstruction of CT images for physician interpretation			
Review acquired and processed images to assure diagnostic quality			
Recognize image or patient artifacts and take appropriate action			
Apply hardware suppression to reduce metal artifact			

	MEETS REQUIREMENT	DOES NOT MEET REQUIREMENT	N/A
INTERVENTIONAL PROCEDURES:			
Select and organize the supplies necessary to perform the procedure			
Control access to the scan room during the procedure			

Assist with the procedure including preparation, documentation, and patient care			
Identify any contraindications prior to the procedure			
Verify the patient's physiological preparation			
Verify completion of informed consent			
Verify and document patient identity			
Localize region of interest for the procedure			
Practice ALARA principles thereby limiting the radiation exposure of patients, fellow workers, and self			
Assure appropriate post-procedure monitoring and documentation is performed			
Assures proper disinfection, cleaning, and maintenance of the sterile field			

Evaluator's Signature _____

Clinical Site _____

Date _____

Comments:

Computed Tomography (CT) Clinical Competency Verification Form

Procedural Requirements:

Applicants must perform at least **10** of the different procedures listed below (at a minimum of 3 times and a maximum of 5 times each) for a total of at least **50** repetitions. The use of intravenous (I.V.) contrast is required of at least **25** of the 50 procedures performed by the applicant. Applicants may only document one procedure per patient per study.

In order for a procedure to qualify, the parameters selected for the procedure should be considered diagnostic quality and not performed for attenuation correction only. Each procedure should include patient assessment and preparation, patient positioning, protocol and parameter selection, post-processing and Quality Control, if permitted by state and/or institutional regulations. The applicant must demonstrate competency in Quality Assurance, including calibration checks, CT number, and standard deviation (water phantom).

Procedures may be performed in conjunction with a PET or SPECT attenuation correction scan or Radiation Therapy planning procedure. These procedures are eligible to count once towards the required 10 or more procedures that must be completed with a minimum of three (3) repetitions and maximum of five (5) repetitions.

Instructions:

- 1. Select at least 10 different procedures out of the 53 procedures listed for adult and/or pediatric**
- 2. Complete at least 3 and not more than 5 repetitions of each of the selected procedures**
- 3. Complete a total of at least 50 repetitions across all of the selected procedures**

Please indicate the date each procedure was performed by the applicant, number of repetitions, the facility or institution name where procedure was performed, and the supervisor of the applicant. Copies of this form may be made if the applicant has multiple clinical locations.

CT Procedure	Date(s) Completed	Number of Repetitions	Facility	Supervisor's Initials
<i>Example: Head with contrast</i>	<i>2/5, 2/6, 3/12, 3/18 and 3/19/2019</i>	3 4 <u>5</u>	<i>Marie Curie Institute</i>	<i>MSC</i>
1. Head with contrast		3 4 5		
2. Head without contrast		3 4 5		
3. Head with and without contrast		3 4 5		
4. Brain perfusion		3 4 5		
5. Brain angio		3 4 5		
6. Facial bones/Mandible		3 4 5		
7. Temporal bones		3 4 5		
8. Orbits		3 4 5		
9. Sinuses		3 4 5		
10. Trauma head		3 4 5		
11. Soft tissue neck contrast		3 4 5		
12. Chest with contrast		3 4 5		
13. Chest without contrast		3 4 5		
14. Chest with and without contrast		3 4 5		
15. Chest Angio [PE]		3 4 5		
16. Heart		3 4 5		
17. Calcium Score		3 4 5		

18. Low dose lung screening		3	4	5		
19. High resolution Chest		3	4	5		
20. Cervical Spine		3	4	5		
21. Thoracic Spine		3	4	5		
22. Lumbar Spine		3	4	5		
23. Upper extremity		3	4	5		
24. Lower extremity		3	4	5		
25. Abdomen with contrast		3	4	5		
26. Abdomen without contrast		3	4	5		
27. Abdomen with and without contrast		3	4	5		
28. Abdomen and Pelvis with contrast		3	4	5		
29. Abdomen and Pelvis without contrast		3	4	5		
30. Abdomen and Pelvis with and without contrast		3	4	5		
31. Abdomen/Pelvis [Stone]		3	4	5		
32. Abdomen/Pelvis [Angio]		3	4	5		
33. Abdomen/Pelvis [Adrenal]		3	4	5		
34. Abdomen Multiphase [Kidney]		3	4	5		
35. Abdomen Multiphase [Liver]		3	4	5		
36. Abdomen Multiphase [Pancreas]		3	4	5		
37. Abdomen/Pelvis Multiphase [Multi-use]		3	4	5		
38. Head/Face		3	4	5		
39. Head/Face/Chest		3	4	5		
40. Head/Face/C-Spine/Chest		3	4	5		
41. Head/Face/C-Spine/Neck/Chest Angio		3	4	5		
42. Chest/Abdomen/Pelvis without contrast		3	4	5		
43. Chest/Abdomen/Pelvis with and without contrast		3	4	5		
44. Chest/Abdomen/Pelvis [Angio]		3	4	5		
45. Head/Face/C-Spine [Trauma]		3	4	5		
46. Head/C-Spine [Trauma]		3	4	5		
47. Head/Neck/Chest/Abdomen/Pelvis [Trauma]		3	4	5		
48. Heart Chest/Abdomen/Pelvis Angio		3	4	5		
49. Trauma [Misc.]		3	4	5		
50. Fiducial Marker Placement		3	4	5		
51. Pelvis with contrast		3	4	5		
52. Pelvis without contrast		3	4	5		
53. Pelvis with and without contrast		3	4	5		

**Procedures listed may include both adult and pediatric studies.*

CT Procedures Total:

Total # of CT Procedures Performed: _____ (Minimum of 10 Required)

Total # of Repetitions Performed: _____ (Minimum of 50 Required)

Total # of CT Contrasted Procedures Performed: _____ (Minimum of 25 Required)

Authorized Representative* Attestation

**The Authorized Representative may be the applicant's Program Director, Clinical Coordinator, Supervising Physician, Technical Supervisor, or a NMTCB(CT) or ARRT(CT) credentialed employee of the facility*

I attest that the applicant listed above has demonstrated competency in Quality Assurance, including calibration checks, CT number, and standard deviation (water phantom) as part of the procedural requirements.

Authorized Representative #1

I attest that the information contained herein is true and accurate. I am an authorized representative and may sign this verification submission on behalf of the following institution: _____

(Name of Institution/Facility)

Signature of Authorized Representative Date Signed

Printed Name of Authorized Representative Telephone

Title Email

Authorized Representative #2 (if applicable)

I attest that the information contained herein is true and accurate. I am an authorized representative and may sign this verification submission on behalf of the following institution: _____

(Name of Institution/Facility)

Signature of Authorized Representative Date Signed

Printed Name of Authorized Representative Telephone

Title Email

Return completed form to NMTCB by mail, fax, or email:

NMTCB – Examinations Manager
3558 Habersham at Northlake, Building I
Tucker, GA 30084
Fax: (404) 315-6502 Email: exam.manager@nmtcb.org

Please confirm all four
(4) pages are included
in your transmission.

MOLLOY UNIVERSITY
DIAGNOSTIC C.T. COMPETENCY EVALUATION FORM

STUDENT NAME:	MEETS REQUIREMENT	DOES NOT MEET REQUIREMENT	N/A
PATIENT CARE:			
Identify contraindications to contrast media			
Evaluate vascular access for compatibility for IV contrast media injection			
Monitor patient for, and respond to, reactions to contrast media			
RADIATION SAFETY:			
Control access to the CT examination room during radiation exposure			
Ensure appropriate radiation protection of patient, family, and caregivers during procedure			
Practice ALARA principles thereby limiting the radiation exposure of the patient, public, fellow workers			
Document CT dose report in accordance with institutional guidelines			
Recognize and respond to a dose alert or dose notification			
Instrumentation and Quality Control:			
Perform shutdown, power off, and restart of CT scanner			
Perform tube warm-up			
Perform the appropriate scanner quality control			
Document performance and results of all quality control testing according to quality control program procedures			
Analyze QC results and take appropriate corrective action(s) when necessary			
DIAGNOSTIC IMAGING			
Identify indications for CT imaging			
Instruct patient and family regarding preparation for CT imaging			
Identify the contrast media for a specific procedure			

Appendix M

LIBRARY LIST

Nuclear Medicine Textbooks

(Available to students)

Waterstram-Rich, L. & Gilmore, D. (2023). Nuclear Medicine and Molecular Imaging Technology and Techniques. 9th Ed. ISBN 978-0-323-77550-2

Vallabhajosula, S. (2023). Molecular Imaging and Targeted Radionuclide Therapy: Introduction. In: Molecular Imaging and Targeted Therapy. Springer. ISBN978-3-031-23205-3

Ross, B. & Gambhir, S. (2021). Molecular Imaging Principles and Practice. 2nd Ed., Vol. 1. Elsevier. ISBN 9780128163863

Ross, B. & Gambhir, S. (2021). Molecular Imaging Principles and Practice. 2nd Ed., Vol. 2 Elsevier. ISBN 9780128163863

Bennett, P. (2020). 3rd Ed. Elsevier. Diagnostic Imaging in Nuclear Medicine. ISBN 9780323765305

Kowalsky, R. (2020). Radiopharmaceuticals in Nuclear Pharmacy and Nuclear Medicine. 4th Ed. APhA. ISBN 13- 978-1582122830

Bolus, N. & Glasgow, K. (2018). Review of Nuclear Medicine Technology: Preparation for Certification Examinations. SNMMI. ISBN 9780932004963

Kelley, L. & Petersen, C. (2018). Sectional Anatomy for Imaging Professionals. 4th Ed. ISBN-10:0323414877

Westbrook, C. & Talbot, J. (2018). MRI in Practice. 5th Ed., Wiley-Blackwell. ISBN: 978-1-119-39200-2

Gargani, Y. (2015). Haematology & Immunology. 4th Ed. Mosby Elsevier. ISBN 978-0-7234-3852-6

Abdelhamid, H.(2014). Synopsis of Pathophysiology in Nuclear Medicine. Springer.ISBN 978-3-319-03458-4

Waterstram-Rich, K. & Gilmore, D. (2017). Nuclear Medicine and PT/CT 8th Ed. Elsevier. ISBN 9780323356220

Gyls & Masters, (2014). Medical Terminology Simplified: A Programmed Learning Approach by Body Systems 5th Ed. F.A. Davis. ISBN 978080363971

Madden, (2013). Introduction to Sectional Anatomy 3rd Ed. Lippincott
ISBN 9781609139612

Prekeges, J. (2013). Nuclear Medicine Instrumentation 2nd Ed. Jones and Bartlett. ISBN 9781449652883

Carrio & Ros, (2013). PET/MRI: Methodology and Clinical Applications. Springer Verlag.
ISBN 3642406912

Chandra, (2012). Nuclear Medicine Physics: The Basics. Lippincott.

JET Library-Molloy University

ISBN 1451109415

Shackett, (2012). Nuclear Medicine and PET/CT: Technology and Techniques 7th Ed. Mosby.
ISBN 0323071929

Romans, (2011). Computed Tomography for Technology: A Comprehensive Text. Lippincott.
ISBN 9780781777513

Wells, P. (2011). Practical Mathematics in Nuclear Medicine Technology. SNM.
ISBN 9780932004864

Kowalsky, (2011). Radiopharmaceuticals in Nuclear Pharmacy and Nuclear Medicine 3rd Ed. APA.
ISBN 1582121184

JET Library-Molloy University

Statkiewics, (2011). Radiation Protection in Medical Radiography 6th Ed. Mosby. ISBN 9780323866112

Creason, (2011). Steadman's Medical Terminology Steps to Success in Medical Language.
Lippincott, Williams, and Wilkins. ISBN 9781582558165

Bolus,N. (2011).Steve's Review of Nuclear Medicine Technology-Preparation for the Certification Examinations 4th
Ed.-SNM. ISBN 2011007810

Bushberg & Seibert, (2011). The Essential Physics of Medical imaging 3rd Ed. Lippincott, Williams, and Wilkins.
ISBN 9780781780

Saha, (2010). Fundamentals of Nuclear Pharmacy 6th Ed. Springer. ISBN 9781441958594

Weir & Abrahams, (2010). Imaging Atlas of Human Anatomy 4th Ed. Mosby. ISBN 0723434573

Gurley, (2010). Introduction to Radiologic Technology 7th Ed. Mosby. ISBN 0323073514

Cohen, (2010). Medical Terminology: An Illustrated Guide 6th Ed. Lippincott, Williams, and Wilkins. ISBN 978160547604

Seeram, (2009). Computed Tomography-Physical Principles, Clinical Applications and Quality Control 3rd ED. Elsevier Course. ISBN 1416028951

Gyls & Wedding, (2009). Medical Terminology Systems 6th Ed. F.A. Davis ISBN 9780803620902

Prekeges, J.(2009). Nuclear Medicine Instrumentation. Jones and Bartlett. ISBN 0763766382

Isaacson, (2008).Einstein: The Life of Genius 2008.Simon and Schuster. ISBN 0743264746

Towsley-Cook, (2008). Ethical and Legal Issues for Imaging Professionals 2nd Ed. Mosby. ISBN 9780323045995

Shackett, (2008). Nuclear Medicine Technology: Procedures and Quick References. Lippincott. ISBN 0781774500

Ramer, (2008). Nuclear Medicine Technology-Review Questions for the Board Examinations 3rd Ed. Springer-Verlag. ISBN 3540799699

Steadman, (2008). Steadman's Medical Dictionary for Health Professionals and Nursing 6th Ed. Lippincott and Williams. ISBN 9780781776189

De Angelis & Costic, (2008). The Nuclear Medicine Workbook. Allied Science. ISBN 094358928

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- Biersack, (2007). Clinical Nuclear Medicine. Springer.
ISBN 3540280251
JET Library-Molloy University
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- Morton & Clark, (2007). Diagnostic Imaging: Nuclear Medicine. Amirsys.
ISBN 0801605474
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- Adler, (2007). Introduction to Radiologic Sciences and Patient Care 4th Ed. Saunders.
ISBN 1416031944
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- Goldfarb, (2007). Nuclear Medicine Board Review 2nd Ed. Thieme. ISBN 1588905241
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- Treves, (2007). Pediatric Nuclear Medicine /PET.
Springer. ISBN 9780387323213
JET Library-Molloy University
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- Noz, M. & Maguire, G., (2007). Radiation Protection in the Health Sciences 2nd ED.
World Scientific.
ISBN 9812705961
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- Lombardi, (2007). Radiation Safety in Nuclear Medicine 2nd Ed.
CRC Press. ISBN 978849381683
JET Library-Molloy University
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- Kelley, (2007).Sectional Anatomy for Imaging Professionals 2nd Ed. Health Sciences.
ISBN 0323020038
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- Baert & Sartor, (2006).Diagnostic Nuclear Medicine.
Springer. ISBN 978540423096
JET Library-Molloy University
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- Mettler, (2006). Essentials of Nuclear Medicine Imaging 5th Ed.
Saunders. ISBN 0721602010
JET Library-Molloy University
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- Powsner, (2006). Essential Nuclear Medicine Physics.
Wiley-Blackwell. ISBN 9781405104845
JET Library-Molloy University
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- Gehlback, (2006). Interpreting the Medical Literature, 5th Ed. McGraw Hill.
ISBN 9780071437899
-

Henkin, (2006). Nuclear Medicine. 2nd Ed. Mosby.

JET Library-Molloy University

ISBN 9780323028981

Zimmermann, (2006). Nuclear Medicine/ Radioactivity for Diagnosis and Therapy. EDP Sciences. ISBN 92782868839626 (3 copies)

Ziessman, (2006). Nuclear Medicine: The Requisites in Radiology. Mosby.

ISBN 0323029469

JET Library-Molloy University

Lin & Abass Alavi, (2006). PET and PET/CT: A Clinical Guide. Thieme.

ISBN 158890400

Saha, (2006). Physics and Radiobiology of Nuclear Medicine 4th Ed.

Springer. ISBN 9781461440116

JET Library-Molloy University

Elgazzar,(2006).The Pathophysiologic Basis of Nuclear Medicine 2nd Ed.

Springer. ISBN 3540239928

JET Library-Molloy University

McConnell, (2006). Umiker's Management Skills for the New Health Care Supervisor 4th Ed.

Jones and Bartlett. ISBN 07672780

Lee, (2005). Computers in Nuclear Medicine 2nd Ed. SNM. ISBN 0972647848

DePoy & Gitlin, (2005). Introduction to Research 3rd Ed. Mosby. ISBN 032302853

Ramer, (2005). Nuclear Medicine –Review Questions for the Board Examinations 2nd Ed.

Springer. ISBN 3540253742

Sharpan & Gemmell, (2005). Practical Nuclear Medicine.

JET Library-Molloy University

Springer. ISBN 9781852338756

Taber , (2005). Taber's Cyclopedic Medical Dictionary. F. A. Davis.

ISBN 9780803610

Saha, (2004). Fundamentals of Nuclear Pharmacy 5th Ed. Springer.

ISBN 0387403604

Wackers & Bruni, (2004). Nuclear Cardiology: The Basics How to Set Up and Maintain a Laboratory. Humana Press. ISBN 1592594263

Heller & Hendel, (2004). Nuclear Cardiology: Practical Applications. McGraw Hill.

ISBN 007138635

Chandra, (2004). Nuclear Medicine Physics: The Basics 6th Ed.

JET Library-Molloy University

Lippincott, Williams, and Wilkins. ISBN 0781741538

Davis, (2004). Quick and Accurate 12-Lead ECG Interpretation 4th Ed. Lippincott, Williams, and Wilkins. ISBN 978158255379

Steves & Wells, (2004). Review of Nuclear Medicine Technology 3rd Ed. (2 copies). SNM.
ISBN 0972647856

Cohen, (2004). Medical Terminology an Illustrated Guide 4th Ed. Lippincott, Williams, and Wilkins.
ISBN 0781736889

Kim, (2003). Nuclear Medicine Exam Questions. Infinity. ISBN 0741415194

Torres & Linn-Watson Norcutt, (2003). Basic Medical Techniques and Patient Care in
Imaging Technology 6th Ed. Lippincott. ISBN 0781731917

Crawford & Husain, (2003). Nuclear Cardiology Imaging Terminology and Technical
Aspects. SMN. ISBN 0932004741

Wahl & Buchanan, (2002). Principles and Practice of Positron Emission Tomography.
Lippincott, Williams, and Wilkins. ISBN 0781729041

Bushberg, (2002). The Essential Physics of Medical Imaging 2nd Ed. Lippincott, Williams,
and Wilkins. ISBN 0683301187

Romans, (2001). Computed Tomography for Technologists: Exam Review. Lippincott.
ISBN 78780781777964

Forshier, (2001). Essentials of Radiation Biology and Protection 1st Ed. Cengage Learning.
ISBN 0766813304

MRI for Technologists (2001). (Modules 1&2). Berlex Technologies.

Nuclear Medicine (2001) Cardiology Topic 6 -Myocardial Perfusion Scintigraphy-Clinical Aspects
SNM. ISBN 93200458-X

Taylor & Schuster, (2000). A Clinician's Guide to Nuclear Medicine. SNM.
ISBN 0932004725

Williams, (2000). Myocardial Perfusion Imaging a Survey, 2nd Ed. Fujisawa Healthcare

Austrin & Austrin, (1999). Learning Medical Terminology 9th Ed. Mosby.
ISBN 032300279-X

Austrin & Austrin, (1999). Learning Medical Terminology: Instructor's Guide: A Work Text. 9th
Ed. Mosby. ISBN 032300282-X

Birmingham, (1999). Medical Terminology 3rd Ed. Mosby.
ISBN 0323004067

Berlex Laboratories, (1999). MRI (made easy).

Lombardi, (1999). Radiation Safety in Nuclear Medicine. CRC Press.
ISBN 0849318971

Wagner & Karesh, (1999). Questions and Answers in Nuclear Medicine. Mosby.
ISBN 1556644280

Ehrlich & McCloskey, (1999). Patient Care in Radiography with an Introduction to Medical Imaging
5th Ed. Mosby. ISBN 0815128568

Silberstein & Mc Afee, (1998). Diagnostic Patterns in Nuclear Medicine. SNM.
ISBN 0932004695

Powsner & Powsner, (1998). Essentials of Nuclear Medicine Physics. Blackwell Science. ISBN 0063204314

NRCP Report #128, Radionuclide Exposure of the Embryo/Fetus (1998). Library of Congress. ISBN 0929600606

Saha, G. (1998). Fundamentals of Nuclear Pharmacy 4th Ed. Springer. ISBN 0387983414

Cohen, (1998). Medical Terminology an Illustrated Guide 3rd Ed. Lippincott, Williams, and Wilkins. ISBN 0781714117

Kuni & DuCret, (1997). Manuel of Nuclear Medicine Imaging. Thieme. ISBN 0865775680

Bernier & Christian, (1997). Nuclear Medicine Technology and Techniques 4th Ed. Mosby. ISBN 0815119917

Steves & Wells, (1997). Preparation for Examinations in Nuclear Medicine Technology. SNM. ISBN 093200449

Review Questions for Nuclear Medicine: The Technology Registry Exam 1997
Foss
Parthenon
ISBN 1850707030

Sectional Anatomy Study Guide 1997
Kelley and Petersen
Mosby
ISBN 0815186673

Harbert & Newman, (1996). Nuclear Medicine (Diagnostics and Therapy) Thieme. ISBN 0865775702

Fogelman & Collier, (1996). Skeletal Nuclear Medicine 1st Ed. Mosby.
ISBN 0815132735

Datz, (1995). Gamuts in Nuclear Medicine. Appleton. ISBN 0838530753

Romans, (1995). Introduction to Computed Tomography 1st Ed. Lippincott, Williams, and
Wilkins. ISBN 0683073532

Mettle & Upton, (1995).Medical Effects of Ionizing Radiation , W.B. Saunders. ISBN
0721666469

Rice, (1995). Medical Terminology with Human Anatomy Instructor's Guide and Test bank 3rd
Ed. Appleton and Lange. ISBN 0838562728

Thrall, (1995).Nuclear Medicine: The Requisites. Mosby. JET Library-Molloy University
ISBN 0801666740

Wagner & Szabo, (1994). Principles of Nuclear Medicine 2nd Ed. Harcourt Brace. ISBN
0721690912

Early & Sodee (1995). and Practice of Nuclear Medicine 2nd Ed. Mosby.
ISBN 0801625777

Beauchamp & Walters, (1994). Contemporary Issues in Bioethics 4th Ed. Wadsworth.
ISBN 534223141

Ashley & O' Rourke, (1994). Ethics of Health Care: An Introductory Textbook 2nd Ed. Georgetown
University Press. ISBN 9781589011168

Jolt & Leibovici, (1994).Health Care Management 1994. Hanely and Belfus
ISBN 156053141-X

Dowd, (1994). Practical Radiation Protection and Applied Radiobiology. W.B. Saunders.
ISBN 072164917

Baum & Campeau, (1993). Atlas of Nuclear Medicine 2nd Ed. Allied Science.
ISBN 0943589258

Datz, (1993). Handbook of Nuclear Medicine 2nd Ed. Mosby. ISBN 0801677009

Zaret & Beller, (1993).Nuclear Cardiology State of the Art and Future Directions. Mosby.
ISBN 080166490-X

Hall, (1993). Radiobiology for the Radiologist 4th Ed. J.B. Lippincott
ISBN 0397512481

Jonas, (1992). Introduction to the U.S. Health Care System 3rd Ed. Springer. ISBN
0826139841

Mandell, (1992). Computers and Information Processing 6th Ed. West. ISBN 0314929649

Saha, (1992). Fundamentals of Nuclear Pharmacy 3rd Ed. Springer. ISBN 3540977139

Datz & Patch, (1992). Nuclear Medicine: A Teaching File. Mosby. ISBN 0801663652

Strosberg & Weiner, (1992). Rationing America's Medical Care: The Oregon Plan and Beyond. Brookings. ISBN 0815781970

Maisey & Britton, (1991). Clinical Nuclear Medicine 2nd Ed. Springer. ISBN 0412279002

Lee, (1991). Computers in Nuclear Medicine: A Practical Approach. Springer. ISBN 0932004369

Mettler & Guiberteau, (1991). Essentials of Nuclear Medicine Imaging 3rd Ed. Grune and Stratton. ISBN 0808917676

Pate & Blair, (1991). Guidelines for Exercise Testing and Prescription 4th Ed. Lea and Febiger.

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Dictionary and Handbook of Nuclear Medicine and Clinical Imaging, (1990). CRC Press. ISBN 0849332338

English & Brown, (1990). SPECT: Single-Photon Emission Computed Tomography: A Primer. SNM. ISBN 092004342

Van Nostrand & Baum, (1988). Atlas of Nuclear Medicine. J.B. Lippincott ISBN 0397507895

Gelfand & Thomas, (1988). Effective Use of Computers in Nuclear Medicine: Practical Applications in the Imaging Laboratory. McGraw Hill. ISBN 0070230935

Bernier, (1988). Nuclear Medicine Technology and Techniques. Mosby. ISBN 0801605474

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Thrall & Swanson, (1985). Diagnostic Interventions in Nuclear Medicine. Yearbook.
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Nave & Nave (1985). Physics for the Health Sciences 3rd Ed. W.B. Saunders. ISBN
0721613098

Freeman & Johnson, (1984). Freeman & Johnson's Clinical Radionuclide Imaging, 3rd Ed.
Harcourt Brace. ISBN 0808915975

Forrest & Feigin, (1982). Essentials of Chest Radiology W.B. Saunders. ISBN 072163818-X

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ISBN 0808912380

Physics and the Physical Perspective 2nd edition 1980
Hooper and Gwynne
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ISBN 0060429127

Noz & Maguire (1979). Radiation Protection in the Radiologic Health Sciences. Lea and Febiger
ISBN 0812106571

Jacob & Francone, (1978). Structure and Function in Man, 4 th Ed. W.B. Saunders
ISBN 72165098

Ritchie & Hamilton. (1978). Thallium-201 Myocardial Imaging. Raven
ISBN 0890042748

Pizzarello & Witcofski (1975). Radiation Biology, 2nd Ed. Lea and Febiger
ISBN 0812105222

Anthony & Kolthoff (1975). Textbook of Anatomy and Physiology, 9th Mosby
ISBN 0801602548

James & Wagner (1974). Pediatric Nuclear Medicine. Saunders
ISBN 0721651089

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Py-Walker, P. (2017) Physics – 5th Edition. Pearson Educators ISBN 0-321-97644-