

MEDICAL TECHNOLOGY

DIVISION

STUDENT HANDBOOK

I. INTRODUCTION

This curriculum is designed for those who wish to acquire knowledge and skills in clinical laboratory science. The program provides students with expertise in pathobiology and laboratory applications in the following content areas: hematology, immunology, microbiology, immunohematology, clinical chemistry, and body fluid analysis. Upon successful completion of the program, students either become professional medical technologists (clinical laboratory scientists) or move on to graduate and/or professional programs. The program is well suited to meet the needs of any student who enjoys the natural and/or physical sciences and is interested in the medical/health care applications of these fields.

Before enrolling in Medical Technology, the student typically completes the university general education curriculum in natural sciences, social sciences and humanities plus additional science courses chosen by the division as pre-requisites to provide the basic knowledge needed before beginning the Medical Technology courses.

Students enrolled in the Medical Technology Division learn to understand the theory involved in laboratory testing procedures and the interpretation of test results, in addition to the correlation of results with various disease states. Those students planning to become certified medical technologists will also learn to perform many different laboratory tests. Included within the courses are units on instrument maintenance, quality assurance programs, evaluation of new procedures, and various kinds of problem solving. Courses within the division will add to the student's knowledge of management, education, and clinical applications.

After entry in the field, many medical technologists take on additional responsibilities in the work site including such activities as: laboratory management, supervision of personnel, establishment of quality assurance programs, development and standardization of methods, provision of educational programs, and research.

Most graduates of this division accept positions in medical (hospital, clinic, research or private) laboratory settings soon after graduation. After gaining some experience, they frequently advance to supervisory positions, become instructors in medical technology programs, become technical or sales representatives for some of the scientific supply and equipment companies, or go on to specialize in a particular clinical area or graduate/professional school to prepare for further advancement or advanced careers in medicine.

II. FACULTY/ INSTRUCTIONAL STAFF	ROOM NUMBER	TELEPHONE
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Interim Program Director

Tammy L. Bannerman, PhD Clinical Assistant Professor Bannerman.2@osu.edu	535 Atwell Hall	292-7303 Ext.4#
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Medical Director

Michael G. Bissell, M.D. Professor Department of Pathology Michael.bissell@osumc.edu	N337 Doan Hall	293-5617
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Faculty

Sally V. Rudmann, Ph.D., MT (ASCP) SBB, CLSpI (NCA) Professor rudmann.1@osu.edu	535 Atwell Hall	292-7303 Ext. 5#
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Huey-Jen Lin, Ph.D. MT(ASCP), CLSpMB(NCA) Assistant Professor lin.661@osu.edu	535 Atwell Hall	292-7303 Ext. 6#
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Kathy V. Waller, Ph.D., CLS(NCA), MT(ASCP)SI Assistant Professor waller.1@osu.edu	535 Atwell Hall	292-7303 Ext. 3#
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Jessica Mantini MT(ASCP) Clinical Instructor/Admissions Coordinator mantini.4@osu.edu	535 Atwell Hall	292-7303 Ext. 2#
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Clinical Faculty

Leona W. Ayers, M.D. Professor of Pathology Ayers-1@medctr.osu.edu	M352 Starling-Loving	293-8106
William J. Buesching, Ph.D. Associate Professor of Pathology Buesching-1@medctr.osu.edu	3 West Laboratory Ohio State University East	257-3488
Melanie S. Kennedy, M.D. Associate Professor of Pathology Kennedy-2@medctr.osu.edu	125 Hamilton Hall	292-2109
William J. Becker, D.O. Clinical Assistant Professor of Pathology Becker-1@medctr.osu.edu	E 310 Doan Hall	293-4421
<u>Clinical Site Coordinators</u>		
Patricia Bennon MT(ASCP) SM pbennon@mchs.com	Mount Carmel Hospitals 793 W. State St. Columbus, OH 43222	614-234-1314
Gayle Brown, MT(ASCP), SH Clinical Instructor Gayle.Brown@csauh.com	Mercy Medical Center 1320 Mercy Drive NW Canton, Ohio 44708	330-489-1224
Linda Craig MT(ASCP) BB, SBB lcraig@adena.org	Adena Regional Medical Ctr 272 Hospital Rd. Chillicothe, OH 45601	740-779-7656
Becky Falance BeckyF@sed.sjhs.org	SED Laboratories 5601 Office Blvd. NE Albuquerque, NM 87109	505-727-6226
Ed Firgau, MT(ASCP) Clinical Instructor Firgaue@chi.osu.edu	Children's Hospital 700 Children's Drive Columbus, OH 43205	614-722-5483
Bobbie Jenkins bjenkins@medcentral.org	MedCenter Health Systems 335 Gessner Avenue Mansfield, OH 44930	419-526-8025

Rosemary Kuhlman, MT(ASCP)
rkuhlman@cchseast.org

CCHS Eastern Region 440-312-4500
6780 Mayfield Rd.
Mayfield Heights, OH 44124

Craig Newsom, MT(ASCP)
Clinical Instructor
cnewsom@ohiohealth.com

Grady Memorial Hospital 740-368-5111
561 West Central Avenue
Delaware, OH 43015

Cathy Hargrove MT (ASCP)
Clinical Instructor
Hargrove@fmchealth.org

Fairfield Medical Center 740-687-8964
401 North Ewing
Lancaster, Ohio 43130

Vicki Ingham, MT(ASCP)
vingham@metrohealth.org

MetroHealth Medical Center 216-778-5083
2500 MetroHealth Drive
Cleveland, OH 44109-1998

Cheryl Kelly, MT(ASCP)
Clinical Instructor
cheryl.kelly@osumc.edu

The Ohio State University 614-257-2053
Medical Center East
3rd Floor Laboratory, 1492 Broad Street
Columbus, OH 43205

Cathy Listermann, MT (ASCP)
Manager of Lab Services
calistermann@cmhregional.com

111 South Nelson Ave 937-382-9547
Wilmington, OH 45177

Dorothy Lordo, MT(ASCP)
dlordo@ohiohealth.com

Riverside Methodist Hospitals 614-566-4795
3535 Olentangy River Rd.
Columbus, OH 43214

Lorei Reinhard MT (ASCP)
Clinical Instructor
lreinhard@LMHealth.org

Licking Memorial Hospital 740-348-4156
1320 West Main
Newark, Ohio 43055

Paulene Davis
paulene.davis@odrc.state.oh-us

Corrections Medical Center 614-445-5960
1990 Harmon Ave. ext.2700
Columbus, OH 43223

Don Landek, MT (ASCP)
Don.landek@uhhospitals.org

University Hospitals Cleveland 216-844-5678
11100 Euclid Ave
Cleveland, OH 44106-5077

Emeritus Faculty

Ada R. Sutton, M.S., MT(ASCP)
Associate Professor Emeritus

Peggy Wilson, Ph.D.,
MT(ASCP)SM, CLS(NCA)
Assistant Professor Emeritus

George Manuselis, MA, MT (ASCP)
Instructor Emeritus

John A. Lott, Ph.D.
Professor, Emeritus

III. REGISTRATION

The Med Tech program courses scheduled may vary based on the track of the program and full or part-time status. Students should follow the current version of their track's curriculum guide (available on the SAMP web site) and plan any deviations with their advisor so that correct courses are scheduled every quarter.

Students should follow registration procedures as outlined in the material they receive from the university each quarter. If students experience any difficulty in registering for classes, they should contact the **SAMP Student Affairs Office at 614-292-1706**.

IV. FINANCIAL and HEALTH INFORMATION

A. Fees and Expenses

Students enrolled in the Medical Technology Division pay the usual undergraduate/graduate fees whether working toward a degree or a post baccalaureate certificate.

Other Expenses May Include:

Safety laboratory coat (with name)*
Textbooks
Laboratory Manuals*
Stopwatch*
2 Felt Markers*
Safety Manual*
Safety Glasses (optional but recommended)*

Student Memberships to Professional Societies
National Certifying Examination Fees*
Hepatitis Vaccine, TB test, other immunizations as required
Travel and Relocation expenses for clinical practicum*

* For certification students only or other students taking lab courses

B. Financial Assistance:

Students enrolled in Medical Technology may apply for scholarships and loans through the University Financial Aids Office. In addition, there are a limited number of scholarships/loans available through the Ohio Society for Clinical Laboratory Science and the American Society of Clinical Pathology. Visit each organizations web site for the most current information.

C. Student Health:

Students enrolled in the Medical Technology program must complete the following health requirements:

Initial health review

Immunization record and history of past infection

Measles immunity

Documentation of two live measles vaccines after age one

OR copy of a positive measles titer

Mumps immunity

Documentation of one live mumps vaccine after age one

OR copy of a positive mumps titer

Rubella immunity

Documentation of one live rubella vaccine after age one

OR copy of a positive rubella titer

Tetanus/Diphtheria

Documentation of one TD booster within the last ten years

Varicella (chicken pox) immunity

Positive varicella titer

OR documentation of two doses of varicella vaccine

Hepatitis B immunity

Documentation of the three dose Hepatitis B series (should have two doses prior to start of Autumn Quarter) AND documented positive Hepatitis B surface antibody test

1 to 2 months following completion of vaccine series

*If the antibody status is nonimmune, the series must be repeated.

OR documented positive Hepatitis antibody test without vaccine documentation for those who cannot access

documentation or those who have had the disease and are naturally immune.

Tuberculosis Test (PPD)

One two-step Mantoux (intradermal) PPD skin test during the senior year, prior to internships for Certification track students

Current Vaccine Costs (subject to change at the Student Health Center)

MMR	\$58.00
Tetanus/Diphtheria	\$32.00
Varicella	\$74.00 per dose
Hepatitis B	\$49.00 per dose
Hep B Surface Ab Titer	\$36.00
PPD	\$44.00

For current laboratory test costs including charges for completion of venipuncture and titers for immunity, please contact Student Health Center, Preventive Medicine at 292-2112.

Health exams and immunization documentation must be completed and submitted by the first day of classes.

V. **PROFESSIONAL CURRICULUM**

A. Introduction:

The required Medical Technology courses are offered only **once each year**. Students are admitted to the division in various quarters and typically begin the program each Autumn Quarter. Although a limited number of general education curriculum and pre-major courses can be completed concurrently with the Medical Technology courses, certain pre-major courses must be completed prior to some of the medical technology courses. Please contact the division with specific questions.

Students must show satisfactory completion of all pre-major courses. The faculty of this division consider a **C-** to be the lowest acceptable grade in all medical technology major coursework for those in the certification, graduate and MLT tracks. All students in the certification, medical science, and MLT articulation tracks are expected to make reasonable progress in the MT major coursework. The lowest acceptable grades in pre-major and major coursework are based on the academic standards below. Students may be given an official warning or placed on probation as a result of not meeting these academic standards. Academic action such as official warning or probation will be based on review of the student's record by the Medical Technology faculty and staff. If conditions of a student's probation are not met the student will be disenrolled from the program.

B. Academic Standards:

1. Required courses that must be completed with a **C-** or better before progressing in divisional or other sequential courses:

Biology 113
Chemistry 123
English 110
Mathematics 150 (148 for MLTs)
Molecular Biochemistry 311 and 312 (if taken - cert students only)
Microbiology 509 (clinical Micro for MLTs)
Statistics 145 (135 for MLTs)

2. Required courses which must be passed with a **D** or better:

Chemistry 121, 122
Chemistry 251, 252 (Med Sci students, optional for cert students)
Biochemistry 511 (Med Sci students, optional for cert students)
Molecular Genetics 500
Biochemistry 211/212 (MLTs only)

3. Required courses that must be completed with a C- or better before progressing to the clinical practice (MT 669 & MT 679) counterparts in the certification and graduate tracks:

Medical Technology 400 Principles of Phlebotomy
480.01 and .02 Intro to the Lab Environment
500.01 and .02 Microbiology I
510.01 and .02 Hematology
620 Education and Management in CLS
525.01 and .02 Microbiology II
570.01 and .02 Body Fluid Analysis
600.01 and .02 Molecular Diagnostics
602 Clinical Correlations in Microbiology
604 Clinical Correlations in Chemistry
605 Clinical Correlations in
Immunoematology
615.01 and .02 Advanced Hematology
630.01 and .02 Immunology
635.01 and .02 Immunoematology
645.01 and .02 Clinical Chemistry

2. Other required courses in which students must achieve an **S** in order to receive a degree or certificate in the certification and

graduate tracks:

Medical Technology 669 Clinical Practice in Clinical Lab Science
679 Clinical Practice in Transfusion
Medicine
689 Interdisciplinary Studies in CLS

C. SAMPLE PROFESSIONAL CURRICULUM (for the Certification Track)

Third and Fourth Years (Professional) [first 2 years for grad students]

FALL

MT 400	2	Principles of Phlebotomy
MT 480.01	2	Intro to the Laboratory Environment Lecture
MT 480.02	1	Intro to the Laboratory Environment Lab
MT 525.01	3	Clinical Laboratory Microbiology II Lecture
MT 525.02	2	Clinical Laboratory Microbiology II Lab
GEC or prerequisite	<u>5</u>	
	15	Total Credit Hours

WINTER

MT 510.01	3	Hematology I Lecture
MT 510.02	2	Hematology I Lab
MT 500.01	3	Clinical Microbiology I Lecture
MT 500.02	3	Clinical Microbiology I Laboratory
GEC or prerequisite	<u>5</u>	
	16	Total Credit Hours

SPRING

MT 630.01	4	Immunology Lecture
MT 630.02	1	Immunology Laboratory
MT 600.01	2	Molecular Invest. of Infect. Disease Outbreaks Lecture
MT 600.02	1	Molecular Diagnostics Laboratory
MT 570.01	2	Body Fluid Analysis Lecture
MT 570.02	1	Body Fluid Analysis Lab
MT 602	<u>2</u>	Clinical Correlations in Microbiology
	13	Total Credit Hours

AUTUMN

MT 615.01	4	Advanced Hematology Lecture
MT 615.02	2	Advanced Hematology Laboratory
MT 645.01	5	Clinical Chemistry Lecture

MT 645.02	2	Clinical Chemistry Laboratory
MT 604	<u>2</u>	Clinical Correlations in Chemistry
	15	Total Credit Hours

WINTER

MT 635.01	5	Immunhematology Lecture
MT 635.02	3	Immunhematology Laboratory
MT 605	2	Clinical Correlations in Immunohematology
MT 620	3	Education and Management in CLS
	13	Total Credit Hours

SPRING

MT 669	12	Clinical Practice in Laboratory Science
MT 679	2	Clinical Practice in Immunohematology
MT 689	2	Interdisciplinary Studies in CLS
	16	Total Credit Hours

D. SAMPLE PROFESSIONAL CURRICULUM (for the Medical Science Track)

Third and Fourth Years (Professional)

FALL

MT 525.01	3	Clinical Laboratory Microbiology II Lecture
MT 595	2	MT Seminar
GEC or prerequisite	5	
GEC or prerequisite	<u>5</u>	
	15	Total Credit Hours

WINTER

MT 510.01	3	Hematology I Lecture
MT 500.01	3	Clinical Microbiology I Lecture
GEC or prerequisite	5	
GEC or prerequisite	<u>5</u>	
	16	Total Credit Hours

SPRING

MT 630.01	4	Immunology Lecture
MT 600.01	2	Molecular Invest. of Infect. Disease Outbreaks Lecture
MT 570.01	2	Body Fluid Analysis Lecture
MT 602	2	Clinical Correlations in Microbiology
GEC or prerequisite	<u>5</u>	
	15	Total Credit Hours

AUTUMN

MT 615.01	4	Advanced Hematology Lecture
MT 645.01	5	Chemistry Lecture
MT 604	2	Clinical Correlations in Chemistry
GEC	<u>5</u>	
	16	Total Credit Hours

WINTER

MT 635.01	5	Immunohematology Lecture
MT 605	2	Clinical Correlations in Immunohematology
GEC	<u>5</u>	
	12	Total Credit Hours

SPRING

GEC or elective	5	
GEC or elective	5	
GEC or elective	<u>5</u>	
	15	Total Credit Hours

E. SAMPLE PROFESSIONAL CURRICULUM (for the MLT Articulation Track)

Third and Fourth Years (Professional)

Coursework in this track will depend on the amount of transfer credit granted from the MLT degree at the time of admission but will be similar to that of the medical science track. Please refer to the most recent version of the curriculum on SAMPs web site. Students should consult their advisor to plan courses.

F. Class Attendance:

ATTENDANCE IS EXPECTED at all lectures, laboratories, clinical rotations and examinations in courses for which the student is registered. When a student has missed class for any reason, it is the student's responsibility to see the instructor about the work missed. Every effort will be made to help a student who has missed time for an acceptable reason. However, it is not possible to meet the minimum objectives without being present at most sessions.

G. Program Goals and Objectives/Competencies

Program Goal 1.

The Medical Technology Program will prepare entry level clinical laboratory scientists/medical technologists (CLS/MT) who demonstrate a professionalism reflective of the standards of practice and code of ethics which underlie the profession.

This implies the ability to:

1. accept responsibility for the quality of his/her own work.
2. employ communication skills.
3. employ human relations skills.
4. exhibit a readiness for continuing education.

TPO 1.1 Given his/her expected role performance the entry level CLS will fully accept the responsibility for the quality of his/her own work. This implies the ability to:

- EO
1. demonstrate knowledge of the effect laboratory data has upon patient care.
 2. demonstrate a concern for patient care.
 3. identify and accept his/her own strengths and weaknesses.

TPO 1.2 The entry level CLS will communicate his/her message so that it is understood by the intended person or persons. This implies the ability to:

- EO 1. translate ideas, facts and concepts to persons within the context of his work.
- 2. transcribe and keep accurate and effective records.
- 3. send accurate and effective reports to the appropriate person or agency.
- 4. maintain records according to legal regulations.

TPO 1.3 The entry level CLS will demonstrate an ability to cooperate with persons involved in the context of his work in a manner which reflects consideration of the relevant human relations factors facilitative of goal achievement. This implies the ability to:

- EO 1. relate his/her role to that of other persons in the context of his/her work
- 2. demonstrate an ability to employ human relations skills in dealing with others
- 3. recognize the potential of productivity of group effort.
- 4. recognize basic human needs (i.e., those identified by Maslow) in self and in others.

TPO 1.4 The entry level CLS will demonstrate an awareness of the need for continuing education in terms of his/her professional growth and development by identifying his/her professional goals, his/her strengths and weaknesses and changes within his/her profession. This implies the ability to:

- EO 1. logically formulate goals and objectives for continuing growth and development in the profession.
- 2. assess his/her strengths and weaknesses.
- 3. identify changes within the profession
- 4. identify available resources for continuing education.

Program Goal 2

The Medical Technology Program will prepare entry level clinical laboratory scientists who will provide accurate results of diagnostic laboratory tests. This implies the ability to:

- 1. perform analyses.
- 2. evaluate laboratory methods.
- 3. provide equipment maintenance.
- 4. establish and use quality control/ quality assurance.
- 5. solve problems.

TPO 2.1 The entry level CLS will perform diagnostic laboratory analysis in

accordance with established laboratory procedures and professional standards of practice, and without error of clinical significance.

This implies the ability to:

- EO
1. employ laboratory criteria for specimen acceptance.
 2. handle physiological specimens according to established laboratory criteria preventing a health hazard or the introduction of error of clinical significance in test results.
 3. set up equipment for routine use.
 4. prepare reagents and standards suitable for use in the clinical laboratory.
 5. calculate test results and convert them to a form meaningful in patient assessment.
 6. interpret and/or confirm test results when appropriate
 7. make decisions based on established protocols initiating further testing of abnormal results when appropriate.
 8. perform tests within a time period necessary for clinical relevancy.
 9. perform the following functions in the clinical area specified according to procedures established by the laboratory and without error of clinical significance.
 - 9.1 Clinical chemistry
 - 9.1.1 perform analyses of chemical constituents of physiological specimens.
 - 9.2 Clinical microbiology
 - 9.2.1 Culture, isolate and identify microorganisms from clinical specimens.
 - 9.3 Clinical hematology
 - 9.3.1 Perform analysis of chemical, cellular and formed element constituents of blood, marrow, and cerebrospinal fluid specimens.
 - 9.3.2 Microscopically detect cellular abnormalities in blood, marrow and cerebrospinal fluid specimens.
 - 9.3.3 Correlate and interpret information and data derived from hematologic determinations with other laboratory determinations.
 - 9.4 Immunohematology

- 9.4.1 Perform analyses resulting in the typing, antibody identification and compatibility assurance of donor and recipient blood specimens.
- 9.4.2 Perform specific immunohematologic investigations.
- 9.4.3 Provide for the acquisition of donor blood.
- 9.4.4 Prepare blood components
- 9.5 Immunology and Serology
 - 9.5.1 Perform, read and interpret serologic tests for the presence of antibodies and antigens.
 - 9.5.2 Perform, read and interpret immunologic tests for the presence of specific proteins.
 - 9.5.3 Perform, read and interpret antibody specificity and intensity of reactions by immunofluorescence.
- 9.6 Cellular immunology
 - 9.6.1 Perform analysis for cell markers on viable lymphocytes.
- 9.7 Urinalysis
 - 9.7.1 Perform analysis of the microscopic and chemical constituents of urine specimens.
 - 9.7.2 Perform physical tests for concentration of urine
- 9.8 Coagulation
 - 9.8.1 Select, perform and interpret tests which evaluate the coagulation mechanism of plasma specimens.
- 9.9 Parasitology
 - 9.9.1 Locate and identify parasites present in physiological specimens.
- 9.10 Toxicology
 - 9.10.1 Perform tests for the presence and quantity of specific drugs in physiological specimens.
- 9.11 Cytogenetics
 - 9.11.1 Culture, photograph and karyotype chromosomes from peripheral blood and bone marrow specimens.
- 10. Draw blood specimens suitable for analysis in the

clinical laboratory.

TPO 2.2 The entry level CLS will evaluate the feasibility and usefulness of laboratory methods to the extent that optimal conditions and standardization, sources of error and normal ranges are identified.

This implies the ability to:

- EO
1. identify the parameters of the method to be evaluated.
 2. develop a research strategy that will provide accurate and objective data pertinent to the parameters being evaluated.
 3. conduct experiments (perform analyses, identifications or tests) to provide data.
 4. evaluate data results.
 5. draw conclusions relative to the parameters in question.

TPO 2.3 The entry level CLS will maintain laboratory equipment in accordance with laboratory procedures to the extent that laboratory safety and test results without error of clinical significance are assured. This implies the ability to:

- EO
1. provide an informative system for monitoring use, inventory, and maintenance of all instruments and equipment.
 2. order anticipated parts and materials
 3. provide preventative maintenance of instruments and equipment.
 4. provide for repair or service as indicated.

TPO 2.4 The entry level CLS will establish and use quality control/assurance systems for established laboratory procedures to the extent that quality of output is assured. This implies the ability to:

- EO
1. recognize problem situations
 2. analyze problem situations
 3. theorize the cause of specific problems.
 4. synthesize solutions.
 5. implement solutions.
 6. evaluate solutions.

Program Goal 3

The Medical Technology Program will prepare entry level clinical laboratory scientists who will facilitate maximal output of services of the clinical laboratory. This implies the ability to:

1. employ basic management skills.
2. supervise supportive personnel.
3. instruct supportive personnel and CLS students.

TPO 3.1 The entry level CLS will employ basic management skills of organization, budget and planning in accordance with governmental and/or institutional policies and regulations. This implies the ability to:

- EO
1. plan.
 2. organize.
 3. implement.
 4. evaluate.
 5. advise.

TPO 3.2 The entry level CLS will supervise all work performed and personnel in his/her work area of supervision using human relations factors and principles of administration to the extent that quality and efficiency of laboratory functions are assured. This implies the ability to:

- EO
1. make recommendations for job descriptions and policies regarding supportive personnel.
 2. orient supportive personnel to policies, equipment and procedures.
 3. assign responsibilities to supportive personnel.
 4. evaluate personnel performance.
 5. advise supportive personnel.

TPO 3.3 The entry level CLS will provide learning experiences for supportive personnel and CLS students in accordance with established theories of learning and instructional strategies to the extent that such instruction is effective and relevant to the needs of the profession. This implies the ability to:

- EO
1. identify educational opportunities.
 2. provide learning experiences.
 3. evaluate learning (content and process).

VI. NON-ACADEMIC REQUIREMENTS

A. **Essential Functions:**

Essential functions are those knowledge, skills, and attitudes that are necessary for success in the profession of medical technology/clinical laboratory science.

These requirements are briefly outlined below. If you have any concerns regarding

your ability to perform these functions, please contact the Medical Technology Division at 614-292-7303.

1. Intellectual/Conceptual:

The Medical Technologist must be able to exercise independent judgement. This includes, but is not limited to, the following abilities:

- measure and calculate
- define problems, analyze data, develop and implement solutions
- reason and apply sound judgement
- question logically, recognize and differentiate facts from opinion and illusion, and distinguish the logical from the illogical and relevant from irrelevant
- participate fully in all laboratory exercises and clinical experiences in the program
- understand and follow directions
- apply learned skills and knowledge to new situations
- communicate effectively in formal and colloquial English in person-to-person, telephone, written and telecommunications.

2. Behavioral and Social:

The Medical Technologist must be able to exhibit appropriate professional conduct that includes but is not limited to the following abilities:

- fulfill commitments and be accountable for actions
- self-direct, self-correct and be responsible for one's own learning and professional development
- deal with stress and maintain composure under pressure and time constraints
- willingly follow directions
- make decisions, prioritize tasks and work on multiple tasks simultaneously
- work both independently and in cooperation with others
- recognize emergency situations and react appropriately
- maintain professional decorum and composure

3. Motor and Physical:

The Medical Technologist must be able to meet the physical demands of the program/job, which include but are not limited to the following:

- read and interpret laboratory endpoints such as color, cloudiness/turbidity and texture
- identify stained and unstained cellular components using a microscope
- have sufficient gross and fine motor skills to operate laboratory equipment

and perform manual laboratory procedures such as pipetting, venipuncture, and plating microorganisms.

- move freely and quickly from one location to another in such areas as clinical laboratories, patient rooms, treatment rooms, and elevators.
- lift and move objects weighing 20 pounds
- possess a sense of touch and temperature discrimination
- work safely with potential chemical, radiological and biological hazards

*References:

Laudicinia RJ, LeGrys VA, Beck SJ. Legal issues relevant to clinical laboratory education program admissions. CLS. 1995;8(4):212-218.

Contois L. Clarification of Essentials regarding technical standards. NAACLS News. 1993;54:1-2

Fritsma GA, Fiorella BJ, Murphy M. Essential requirements for clinical laboratory science. CLS. 1996;9(1): 40-43.

Moewe C. Functional expectations for students. Proceedings of the 1998 ASCLS Clinical Laboratory Educators' Conference, Minneapolis, MN, Feb. 28, 1998.

Essentials of Accredited Educational Programs for the Clinical Laboratory Scientist/Medical Technologist, NAACLS, 1999.

B Ethics:

Preamble

The Code of Ethics of the American Society for Clinical Laboratory Science (ASCLS) sets forth the principles and standards by which clinical laboratory professionals practice their profession.

I. Duty to the Patient

Clinical laboratory professionals are accountable for the quality and integrity of the laboratory services they provide. This obligation includes maintaining individual competence in judgement and performance and striving to safeguard the patient from incompetent or illegal practice by others.

Clinical laboratory professionals maintain high standards of practice. They exercise sound judgment in establishing, performing and evaluating laboratory testing.

Clinical laboratory professionals maintain strict confidentiality of patient

information and test results. They safeguard the dignity and privacy of patients and provide accurate information to other health care professionals about the services they provide.

II. Duty to Colleagues and the Profession

Clinical laboratory professionals uphold and maintain the dignity and respect of our profession and strive to maintain a reputation of honesty, integrity and reliability. They contribute to the advancement of the profession by improving the body of knowledge, adopting scientific advances that benefit the patient, maintaining high standards of practice and education, and seeking fair socioeconomic working conditions for members of the profession.

Clinical laboratory professionals actively strive to establish cooperative and respectful working relationships with other health care professionals with the primary objective of ensuring a high standard of care for the patients they serve.

III. Duty to Society

As practitioners of an autonomous profession, clinical laboratory professionals have the responsibility to contribute from their sphere of professional competence to the general well being of the community. Clinical laboratory professionals comply with relevant laws and regulations pertaining to the practice of clinical laboratory science and actively seek, within the dictates of their consciences, to change those which do not meet the high standards of care and practice to which the profession is committed.

Pledge to the Profession

As a clinical laboratory professional, I strive to:

- Maintain and promote standards of excellence and performing in advancing the art and science of my profession
- Preserve the dignity and privacy of others
- Uphold and maintain the dignity and respect of our profession
- Seek to establish cooperative and respectful working relationships with other health professionals
- Contribute to the general well being of the community.
I will actively demonstrate my commitment to these responsibilities throughout my professional life.

Professionalism and Ethics

Students should re-read the Student Code of Ethics established by the Student Affairs Committee and Student Affairs Council of the School of Allied Medical Professions which is printed in the front of your Student Handbook.

Although it is hoped that all students have conducted themselves in an honest ethical manner in all previous college experiences, it is essential that students understand the extreme importance of such conduct in a professional setting.

Work in the Medical Technology courses is to be treated as though a patient is directly involved.

You should work carefully to assure the greatest accuracy possible in all written lecture and laboratory assignments. You should have confidence in your own ability and always depend on your own results without being influenced by the results obtained by your classmates.

Dishonesty will not be tolerated. Any evidence that a student has not done his or her own work will be investigated. Depending on its gravity, a first offense may result in only a warning. A more serious first offense, and most certainly any second offense, will be dealt with severely.

You will receive two copies of this statement. Please sign both copies to affirm that you have read and understand it. Return one copy to be maintained in your permanent record.

I have read the preceding statement and understand that dishonesty, in any form, is unacceptable.

Signature_____

VII. PROFESSIONAL APPAREL

To maintain an atmosphere of respect and professionalism, students are expected to wear appropriate attire for lecture and laboratories in the medical technology division. Students assigned to the clinical laboratories of The Ohio State University Medical Center or to any other laboratory facility, or to any area where patients are present, are expected to conform to the rules of that facility.

An I.D. badge must be worn at all times at the clinical sites (e.g. hospital, reference labs, etc.). Documentation will be provided to you to request an I.D. badge as an MT student through the OSU hospital's security office.

VIII. PROFESSIONAL ACTIVITIES

A. Professional Associations:

1. The American Society for Clinical Laboratory Science (ASCLS):

ASCLS is a professional society organized to promote the profession and to provide services to those involved in the profession. More information about this organization is available at the ASCLS web site: www.ascls.org.

Student memberships are open to all persons enrolled in a structured program of training or academic instruction in laboratory science and to all graduate students in related fields.

2. American Society of Clinical Pathologists (ASCP):

The American Society of Clinical Pathologists is a professional organization comprised of pathologists (and other physicians), and medical technologists (clinical laboratory scientists). The society serves as a national resource to improve the quality of pathology and laboratory medicine primarily by developing comprehensive educational programs. The Board of Registry of the ASCP certifies individuals in clinical laboratory science both as generalists and in specialty categories. More information about this organization is available at the ASCP web site: www.ascp.org.

Student associate memberships are open to all individuals enrolled in accredited college/university science program or laboratory science program. Membership includes a subscription to *Laboratory Medicine* and *ASCP News*.

B. Certification:

Only graduates of the certification track qualify for national certification.

Graduates students will qualify after their first 2 years of the program. Students enrolled in the MLT track will qualify if they have met the appropriate professional experience requirements as determined by the certifying agency. National certification is expected for practice in the field of medical technology (clinical laboratory science). Currently two agencies provide such certification: American Society of Clinical Pathologists and National Certifying Agency (NCA). Starting October 2009 only the ASCP will provide certification.

C. Licensure:

Requirements for licensure vary by state. It is recommended that you fully investigate licensure requirements in any area in which you propose to practice. Licensure is not currently required to practice in the state of Ohio.

D. Accreditation:

The Medical Technology Program of The Ohio State University is accredited by:
National Accrediting Agency for Clinical Laboratory Sciences
8410 West Bryn Mawr Avenue
Suite 670
Chicago, IL 60631
Telephone: (773) 714-8880

IX: CLINICAL INTERNSHIP

The completion of the Medical Technology program (in the certification and graduate tracks) requires the satisfactory performance of a clinical practicum during the final quarter. Students will be placed at a clinical laboratory for a 10 week rotation during which they are able to apply the theoretical knowledge and technical skills gained in the program to the clinical environment in a supervised setting. All students will be required to read and sign an acknowledgment statement regarding the following:

A. Policy Governing Student Placement at Clinical Sites

Clinical practicum placement for the Spring Quarter of the Senior year will be determined beginning in Spring Quarter of the Junior year, with final confirmation of assignments in Autumn Quarter of the Senior year. Clinical practica will be scheduled only at sites that have a current, signed educational agreement with The School of Allied Medicine, Medical Technology Division. The practicum begins the Monday of the University's scheduled spring break and continues for 10 weeks through the Friday of the 9th week of Spring Quarter. The 10th week of the quarter will be used if a student must repeat a rotation or make-up missed experiences or it can be used for elective rotations.

Students will be assigned randomly to sites by a departmental faculty committee. All sites are considered to be within a commutable distance from the OSU campus with the exception of Mansfield MedCentral, the Cleveland area sites, Mercy Hospitals in Canton, Clinton Memorial in Wilmington, and SED Labs in New Mexico. Since clinical sites within commutable distance from Columbus are limited, **PLACEMENT AT SITES WITHIN COMMUTABLE DISTANCE CANNOT BE GUARANTEED**. Relocation may be necessary. Only volunteers will be placed out of state. All students entering the Medical Technology program must be prepared to spend the last quarter in the program outside of the Columbus area. Plans should be made well in advance to secure the finances to complete this requirement of the program. Students should keep in mind the fact that it may be necessary to spend 10 weeks away from Columbus when signing leases, accepting jobs or making personal plans. Those students with dependant children under the age of 18 will be given a local site whenever possible.

Students who currently work in a **major** area of a clinical laboratory will not be placed in that hospital/facility. This includes OSUMC student employees who work in specimen processing.

The student is required to attend the internship for 40 hours a week – no exceptions. If a student must work during the quarter, the job must not interfere with the 40 required hours of the clinical internship. An employment policy will be signed by the student in Autumn quarter of the senior year.

OSU and our affiliates are obligated to Spring quarter rotations only. If you miss your spring quarter internship due to failing a course or for any personal reason, you should expect to wait one full year to complete your internship experience and graduate.

Completion of the online HIPAA training modules through the OSU College of Medicine will be required during the MT program. Site-specific HIPAA training may need to be repeated at the clinical site. Confirmation of immunization status including a 2 step PPD is also required prior to beginning the practicum experience. Registration for MT 669, MT 679, and MT 689 will be **locked** until HIPAA training and immunization status have been verified.

X. COMPREHENSIVE FINAL (MT 689)

Certification students will be required to take AND PASS a final exam that covers all material covered in the professional program. This exam will be taken during Spring quarter of the final year (during internship). Students will get 2 attempts during each quarter to pass the exam. Students who do not pass will NOT be allowed to graduate as a certification major. Students who do not receive a grade of “S” in MT 689 will be allowed to register for the course 2 additional times in the future.