# Table of Contents

Medical Laboratory Science (MLS)  
Division Chief Welcome ........................................4  
Mission and Vision Statements ................................5  
Clinical Rotation Sites Phone Numbers and Addresses .......6-7  
Faculty and Staff Contact Information ..........................8  

Program Policies and Procedures  
  Introduction, Location, Faculty and Staff .......................9  
  Goals and Affective Objectives ................................10  
  Career Entry Competencies ...................................11-12  
  Essential Requirements .......................................12-14  
  Admission and Vaccination Requirements ....................14-16  
  Courses/Challenging Courses ..................................16-21  
  Tuition and Fees ...............................................21  
  Scholarships and Financial Aid ................................22  
  Grading and Guidelines for Probation .........................23-24  
  Student Records and Privacy Rights ...........................24  
  Graduation ......................................................24  
  Certification Examination .....................................24  
  Program Committees ............................................24-25  
  Appeal Procedure ...............................................25  
  Student Information and Policies ...............................25-29  
  Professional and Community Organizations .................29-30  
  Student Health Insurance ......................................30  
  Campus Facilities ...............................................30-31  
  Clinical Rotation Policies .....................................32  
  Introduction, Clinical Affiliates, Objectives ................32  
  Procedure for Alternates in Clinical Internships ..........33  
  Clinical Rotation Format and Schedule .......................33-34  
  Comprehensive Examination ...................................34  
  Grading and Evaluation Systems ...............................34-35  
  Minimum Competency Reports ................................35  
  Attendance, Holiday, and Sick Policy .........................35-36  
  Employment During Rotations ..................................37  
  Appropriate Attire and Professional Conduct .................37-38  
  Laboratory Safety .............................................38  
  Reporting Accidents and Incidents ............................38  
  Student Liability Insurance ....................................38  
  Termination of Clinical Rotation ..............................38  
  Clinical Affiliation Agreements ...............................39  
  Communication During Clinical Rotations ....................39  

School of Medicine, Department of Pathology Floor Maps...40-41
The Medical Laboratory Science Program reserves the right to make changes in curricular offerings, academic policies, and to add or eliminate courses at any time. By enrolling at the University of Utah and in this program, students are giving their implied consent to abide by all policies, procedures, and regulations contained in the University of Utah General Catalog, in this student handbook, and in program bulletins. All statements in this handbook are true and correct as of the time of publication.
Dear Medical Laboratory Science Students,

Every fall semester we look forward to a new group of students entering our undergraduate program. I extend a warm welcome to each of you on behalf of the Department of Pathology and the Division of Medical Laboratory Sciences. You have the advantage of studying at a major research university and medical school, while still enjoying the benefits of small classes. Our teaching facilities are outstanding and are complemented by a dedicated and knowledgeable faculty. We are eager and committed to help you be successful in your academic endeavors.

For second year students, clinical laboratory rotations provide stimulating educational experiences along with the most current technologies and concepts in laboratory science. You are one step closer to completing the program and becoming a certified medical laboratory scientist!

I wish you all the best this academic year and look forward to our associations.

Best Regards,

Diana G. Wilkins, PhD., M.S., MT(ASCP)
Professor and Division Chief
Medical Laboratory Sciences
Department of Pathology
Mission and Vision Statements

Medical Laboratory Science Division

The mission of the programs in medical laboratory science is to provide the highest standards of learning and scholarship to a diverse student population. The faculty are committed to prepare competent medical laboratory scientists with the necessary skills, attitudes, and professional integrity to become contributing professionals in the healthcare community. The Medical Laboratory Science Program supports the mission of the Department of Pathology, School of Medicine, at the University of Utah.

Our vision is to be among the prominent training programs for medical laboratory scientists, cytotechnologists, and graduate students in laboratory medicine / biomedical science.
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<tr>
<th>CLINICAL SITE/DEPARTMENT</th>
<th>EDUCATION (TEACHING)</th>
<th>PHONE #</th>
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Student Handbook – Medical Laboratory Science

I. Introduction

The purpose of this handbook is to present policies, guidelines, and information concerning the Medical Laboratory Science Program, Department of Pathology, University of Utah School of Medicine. It is intended for use by students, faculty, staff, and administration alike and is meant to complement rather than to replace or supersede the information given in the general University catalog.

II. Location

The Medical Laboratory Science Program is housed in the School of Medicine, Department of Pathology. Within the Department of Pathology are five divisions: Anatomical, Clinical, Surgical, Cell Biology and Immunology, and Medical Laboratory Sciences.

III. Program Officials

Dr. Peter Jensen – Chairman, Department of Pathology
Diana Wilkins – Division Chief
Justin Rhees – Program Director
Takara Blamires – Associate Program Director
Karen Brown – Clinical Coordinator

IV. Faculty

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Karen A. Brown, MS, MLS(ASCP)CM, Professor
Rebecca Buxton, MS, MT(ASCP), Professor
JoAnn P. Fenn, MS, MASC, MT(ASCP), Professor
Larry Schoeff, MS, MT(ASCP), Professor
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Diana Wilkins, PhD, MS, MT(ASCP), Professor

Staff
Kristina Pierce, MS, MLS(ASCP)CM
Nicholas Kippen, MLT(ASCP)

Several guest lecturers contribute to program excellence by providing lectures and/or laboratory support. Qualified medical laboratory scientists at clinical affiliates provide clinical instruction during the senior year rotations. These individuals participate in teaching-related workshops and many have adjunct clinical appointments at the University of Utah.

V. Program Goals

A. Support the goals and mission of the University of Utah.
1. Assist the student in planning to meet the academic requirements for a Bachelor of Science degree from the University of Utah or a certificate of completion from the MLS Program.
2. Maintain appropriate and adequate academic standards consistent with those of the University.
3. Provide the student with opportunities to accept the role of a professional, relate to those outside the medical community, grow personally, and adapt to change.

B. Meet the student's requirement for education in the profession of medical laboratory science as defined by accreditation standards.

1. Provide the student with the cognitive and psychomotor competencies to meet the entry requirements for the profession of medical laboratory science.
2. Provide the student with an environment in which those “affective” requirements of the professional medical laboratory scientist are developed.
3. Assist the student in developing techniques and attitudes for continuing education.

C. Provide opportunity for the student to become aware of the medical team and its responsibility for delivery of quality healthcare.

1. Provide the student with opportunities to grow professionally in developing ethical and moral attitudes regarding duties and responsibilities to the patient and which are consistent with a member of the healthcare team.
2. Encourage interaction with persons from other medical disciplines in cooperative efforts in areas of education and development of the team concept.

VI. Program Affective Objectives

MLS students are expected to conduct themselves in a professional manner. During or after completing MLS courses, students will be able to accurately or positively:

A. Follow written and verbal instructions, as well as all program policies.

B. Adhere to established safety procedures.

C. Maintain attendance and punctuality for classes.

D. Display honesty, reliability and integrity when performing laboratory procedures.

E. Display ethical conduct during classes and in interactions with instructors, other students, patients, and additional members of the healthcare team.

F. Display interest and motivation for classes.

G. Maintain good interpersonal relationships with instructor(s), other students, patients, and additional members of the healthcare team.

H. Organize tasks and work area, and maintain a clean work area.

I. Accept constructive feedback given in the educational environment.

J. Maintain confidentiality of patient information and test results.
K. Utilize laboratory equipment and supplies for the purposes intended.

These affective objectives will be evaluated by faculty during the first year after acceptance into the MLS Program, through self-reflection, and by clinical instructors at the completion of the clinical rotations. Unprofessional or unethical behavior will be grounds for dismissal from the MLS Program.

VII. Career Entry Competencies for Medical Laboratory Science Graduates

After successful completion of the University of Utah Medical Laboratory Science Program, graduates will be able to:

A. Prepare human samples for analysis. Store or transport samples for analysis using appropriate preservation methods.

B. Follow prescribed procedures, and with adequate orientation, perform routine testing in chemistry, microbiology, immunology/serology, immunohematology, hematology, hemostasis, molecular testing and other emerging diagnostic areas.

C. Operate and calibrate clinical laboratory instruments or equipment after proper orientation.

D. Troubleshoot and correct basic instrument malfunctions. Refer serious instrument problems to a senior laboratorian or a supervisor when necessary.

E. Prepare reagents or media from a prescribed procedure, including performing necessary computations, using an analytical balance, and adjusting the pH if necessary.

F. Evaluate media, reagents and standards according to established criteria.

G. Conduct established quality control procedures on analytical tests, equipment, reagents, media, and products; evaluate results of quality control and implement corrective action when indicated.

H. Establish basic quality control procedures, confidence limits and reference intervals for new procedures or methods.

I. Perform comparison studies on new or existing procedures and report results according to conventional scientific formats.

J. Assess the reliability of laboratory results through correlation of data with common physiological conditions.

K. Indicate the need for additional laboratory tests for definitive diagnostic information in prescribed instances.

L. Provide clinical orientation and supervision for students and new or less skilled laboratory personnel. Lecture or provide class demonstrations.

M. Practice established safety measures.

N. Inform superiors of activities including unusual patient data or results.

O. Engage in continuing education to maintain and grow in professional competencies.
P. Present effective in-service continuing education sessions when asked.

Q. Apply leadership skills for completion of projects as assigned.

R. Comply with applicable regulatory statutes.

S. Practice quality assurance and performance improvement techniques for optimum laboratory analysis.

T. Manage laboratory operations and human resources to ensure cost-effective, high-quality laboratory services.

U. Communicate effectively with members of the healthcare team, external relations, and patients.

V. Evaluate research and published studies to remain informed of new techniques and procedures.

W. Utilize information management systems to provide timely and accurate reporting of laboratory data.

X. Behave in a professional and ethical manner.

Y. Maintain focus on the patient to provide quality laboratory services.

VIII. Essential Requirements for the MLS Profession

The following requirements for the MLS Program at the University of Utah parallel the essential functions, or task-based criteria, that employers define and expect of laboratorians when they are hired.

A. Essential Requirements of Observation

The MLS student must be able to:

1. Observe laboratory demonstrations in which biologicals (e.g., body fluids, culture materials, tissue sections, and cellular specimens) are tested for their biochemical, hematological, immunological, microbiological, and histochemical components.

2. Characterize the color, odor, clarity, and viscosity of biologicals, reagents, or chemical reaction products.

3. Operate a clinical grade binocular microscope to discriminate among fine structural and color (hue, shading, and intensity) differences of microscopic specimens.

4. Read and comprehend text, numbers, and graphs displayed in print and on a video monitor.

B. Essential Requirements of Movement

The MLS student must be able to:

1. Move freely and safely about a laboratory.
2. Reach laboratory bench tops and shelves, patients lying in hospital beds, or patients seated in specimen collection furniture.

3. Travel to numerous clinical laboratory sites for practical experience.

4. Perform moderately taxing continuous physical work, often requiring prolonged sitting, over several hours.

5. Maneuver phlebotomy and culture acquisition equipment to safely collect valid laboratory specimens from patients.

6. Control laboratory equipment (e.g., pipettes, inoculating loops, and test tubes) and adjust instruments to perform laboratory procedures.

7. Use a computer keyboard to operate laboratory instruments and to calculate, record, evaluate, and transmit laboratory information.

C. Essential Requirements of Communication

The MLS student must be able to:

1. Read and comprehend technical and professional materials including textbooks, magazine and journal articles, handbooks, and instruction manuals.

2. Follow verbal and written instructions in order to correctly and independently perform laboratory test procedures.

3. Instruct patients prior to specimen collection.

4. Maintain the confidentiality of patient information.

5. Communicate professionally with faculty members, fellow students, staff, and other health care professionals verbally and in a recorded format (writing, typing, graphics, or telecommunication).

6. Prepare papers and laboratory reports, and take paper, computer, and laboratory practical examinations.

D. Essential Requirements of Intellect

The MLS student must:

1. Possess these intellectual skills: comprehension, measurement, mathematical calculation, reasoning, integration, analysis, comparison, self-expression, and critical thinking.

2. Exercise sufficient judgment to recognize and correct performance deviations.

E. Essential Requirements of Behavior

The MLS student must:
1. Manage the use of time and prioritize actions in order to complete professional and technical tasks within realistic constraints.

2. Possess the emotional health necessary to effectively employ intellect and exercise appropriate judgment.

3. Provide professional and technical services while experiencing the stresses of task-related uncertainty (e.g., ambiguous test ordering or test interpretation), emergent demands (e.g., STAT test orders), and a distracting environment (e.g., high noise levels, crowding, complex visual stimuli).

4. Be flexible, creative and adapt to professional and technical change.

5. Recognize potentially hazardous materials, equipment, and situations and proceed safely in order to minimize risk of injury to patients, self, and nearby individuals.

6. Adapt to working with unpleasant biological samples and chemicals.

7. Support and promote the activities of fellow students, instructors, and other healthcare professionals.

8. Be honest, compassionate, ethical, and responsible; be forthright about errors or uncertainty; be able to critically evaluate own performance, accept constructive criticism, and look for ways to improve (e.g., participate in enriched educational activities).

Satisfactory completion of the MLS Program and successful employment following graduation demands your ability to meet the above requirements. If you are uncertain as to your ability with any of these essential functions, please consult with the MLS Program Director.

IX. Admission to Program

A. Program Options

The MLS Program offers the following options: traditional ‘2+2’ curriculum (2 years of general education plus 2 years of professional course work), and a post-baccalaureate option for graduates with degrees in biological, chemical, or physical sciences.

B. Requirements and Process

Students are advised to have strong backgrounds in chemistry, biology, and mathematics. Entry is dependent upon:

1. Successful completion of pre-professional university courses in chemistry, biology, mathematics, and communications
2. Minimum cumulative grade point average (GPA) of 2.5 and math and science GPA of 2.5, and evaluation of repeated coursework
3. Evaluation of formal application
4. Selection by the MLS admissions committee

Enrollment is limited and the admissions committee will select those applicants best qualified. The MLS Program is nondiscriminatory in its recruitment and admission practices; race, color, creed, sex, age, nationality, sexual orientation, and physical status are treated equally. International
applicants are required to achieve a score of 45 or higher on the SPEA Test before they will be considered for admission. Additional admissions criteria are included in the program application materials. Application portfolios must be submitted by March 1 for consideration for fall admission.

C. Criminal Background Check

The University of Utah MLS Program requires a criminal background check of all accepted students prior to the start of the first semester of the professional component of the program. The purpose of this policy is to protect property, help ensure a safe environment in clinical training sites, and select students who exercise good judgment and ethical behavior. All accepted MLS students are required to submit to a criminal background check prior to registration of MD LB courses for fall semester. All offers of acceptance are contingent upon satisfactory results of a criminal background check. Court records are searched for any felony or misdemeanor at the state and national level as well as for other registry listings. The results are reported to the MLS Program Director. Accepted students with a clear background check are permitted to register for the program’s professional courses. Students are responsible for the cost of the background check.

In the event a student who has been accepted to the MLS Program has a background check that shows a criminal history, the following procedure is necessary:

• If the background check establishes that the student has been convicted of a felony (or felonies) or of a misdemeanor (or misdemeanors) involving fraud, the student will not be permitted to continue in the MLS Program. A letter of discontinuance will be sent to the student.

• If the background check establishes that a student has been convicted of other types of misdemeanor(s), the student is required to:
  - Submit a petition that describes in detail the circumstances related to the criminal offence.
  - Participate honestly and forthrightly in an interview by program officials.

Failure to submit a petition or participate honestly and forthrightly in an interview will result in dismissal from the MLS Program. However, submission of a petition and honest and forthright participation in an interview do not guarantee that the student will be permitted to continue in the MLS Program. A letter of discontinuance will be sent to any student who is not deemed acceptable to continue in the MLS Program. The decision of the MLS Program is final.

Students that have been convicted of a misdemeanor (or misdemeanors) should be encouraged to begin legal proceedings to have the conviction(s) expunged.

Clinical affiliates may refuse to accept any student for clinical experiences who has a criminal record, regardless of whether or not the MLS Program allows the student to continue. The MLS Program makes no guarantees that a student with a criminal record can be placed in a clinical internship.
If the MLS Program becomes aware that a student who has been accepted into the MLS Program and has begun courses has a criminal history that the student did not disclose as part of the background check process, the student will be immediately dismissed from the MLS Program.

D. Drug Testing Policy

Some MLS Program clinical affiliates may require students to undergo drug testing prior to beginning their clinical internships. Students are responsible for the cost of the drug screen. A failed drug test will preclude the student from participating in clinical internships and may result in dismissal from the MLS Program.

E. Vaccinations

The MLS Program and associated clinical affiliates require the following immunizations and health history to protect the student, patients, and preceptors. Therefore, all MLS students must submit a Mandatory Student Immunization and Health History Form completed by a licensed healthcare provider; appropriate documentation must be provided as requested. This form must be submitted prior to the first semester of professional courses. All MD LB courses will be dropped if the form is not provided. The following immunizations and respective documentation are required (note that additional immunizations may be required by affiliate institutions prior to the start of clinical rotations):

1. **Hepatitis B** - three immunizations are required or documentation of immunity by titer. The antibody titer must be elevated or immunization is required.

2. **MMR (Measles-Mumps-Rubella)** - two immunizations are required for anyone born during or after 1957. If documentation can not be provided, the antibody titer must be elevated.

3. **Tdap (Tetanus/Diphtheria/Pertussis)** - one booster shot received within the last 10 years is required.

4. **Varicella (Chickenpox)** - two doses of varicella vaccine administered at least 28 days apart, immunity by titer, or health-care provider verification of history of chickenpox are required.

5. **Tuberculosis (TB)** - Only a negative two-step TB test (intradermal PPD), negative Interferon Gamma Release Assay (Quantiferon), or negative chest x-ray are acceptable. The two-step PPD Quantiferon assay or x-ray must be performed within 12 months prior to the start of the fall semester. The two PPD tests must be a minimum of 10 days and maximum of 21 days apart. NOTE: another two-step TB test or Quantiferon assay may be required by clinical affiliates prior to the start of any internship.

Students are responsible for the cost of any service provided by a healthcare professional including the cost of immunizations.

X. Course Requirements
Each candidate seeking a B.S. Degree must complete the University's General Education and Bachelor of Science requirements. A student may "challenge" any of these courses or pass a special examination administered by the University Testing Center for exemption from course work. The requirements listed previously, as well as the biology, chemistry, math, and communications requirements must be completed before the start of the professional program. In addition, all students are expected to possess basic computer skills.

**Biology**
- 1210 or 2020 Principles of Biology or Principles of Cell Biology
- 2230 or 2210 Human Genetics or Genetics
- 2325 Human Anatomy
- 2420 Human Physiology

**Chemistry**
- 1210 and 1215 General Chemistry I and Laboratory
- 1220 and 1225 General Chemistry II and Laboratory
- 2310 Organic Chemistry I
- 3510 Biological Chemistry I

**Mathematics**
- 1050 College Algebra
- 1070 Introduction to Statistics

**Communication**
One COMM course is required. Recommended courses include:
- 1010 or Elements of Speech Communication or
- 1020 or Principles of Public Speaking or
- 2110 Introduction to Interpersonal Communication

**MD LB**
- 3600 Basic Techniques in Clinical Laboratory Science
- 3850 Body Fluids Analysis
- 4100 Clinical Immunology
- 4110 Clinical Immunology Laboratory
- 4200 Clinical Chemistry
- 4210 Clinical Chemistry Laboratory
- 4300 Clinical Hematology
- 4310 Clinical Hematology Laboratory
- 4320 Hemostasis
- 4400 Clinical Immunohematology
- 4410 Clinical Immunohematology Laboratory
- 4500 Pathogenic Microbiology
- 4510 Pathogenic Microbiology Laboratory
- 4511 Molecular Diagnostics
- 4600 Diagnostic Microbiology
- 4610 Diagnostic Microbiology Laboratory
- 4620 Parasitology/Mycology
- 5100 Principles of Education and Research Design
- 5130 Principles of Laboratory Management
- 5200, 5210 Applied Clinical Chemistry I & II
- 5300, 5310 Applied Clinical Hematology I & II
- 5320 Applied Hemostasis
- 5400 Applied Clinical Immunohematology
- 5500, 5510 Applied Clinical Microbiology I & II
- 5530 Applied Clinical Immunology
Overview of Professional Courses

To be eligible for admission to the program, students must have completed all University general education requirements and must also have completed all program prerequisites with a minimum grade of C-. Admission is contingent on maintaining a math and science GPA of 2.5 and a cumulative GPA of 2.5. Any student who fails to maintain a 2.5 GPA (in either math and science or cumulative) will not be permitted to start the professional component of the MLS Program.

The junior (first) year consists of two semesters of intensive professional coursework, including experiences in a student laboratory setting. The senior (second) year is completed in clinical facilities where students rotate through each of the laboratory sections and receive hands-on training. Students enroll for courses and are tested, evaluated, and graded, although their "classroom" is now a working clinical laboratory. All prerequisites and 3000 and 4000 level MD LB courses must be completed before a student may begin the clinical rotation. Professional courses are listed below:

A. Junior (First) Year:

MD LB 3600 Basic Techniques in Clinical Laboratory Science (1 Cr.)
Introduces the various disciplines of study in laboratory medicine; integrates principles of phlebotomy, microscopy, laboratory mathematics, spectrophotometers and laboratory safety.

MD LB 3850 Body Fluids Analysis (2 Cr.)
Study of body fluids such as effusions, spinal fluid, synovial fluid, amniotic fluid and urine. Emphasis is on urinalysis in the scope of renal, body water, and electrolyte physiology.

MD LB 4100 Clinical Immunology (2 Cr.)
Clinical Immunology is an introduction to basic immunology. The course reviews theoretical principles of immunology and provides an overview of basic immunology concepts and serologic techniques used to diagnose disease. Hypersensitivity, autoimmunity, immunoproliferative disorders, immunodeficiencies, and infectious diseases serology will be discussed in detail.

MD LB 4110 Clinical Immunology Laboratory (1Cr.)
This course focuses on representative serology and immunology principles, procedures, and methodology and laboratory safety. Selected diseases will also be discussed.

MD LB 4200 Clinical Chemistry (4 Cr.)
This course addresses clinical chemical analysis of human blood and body fluids in normal and abnormal physiological conditions with emphasis on clinical testing methods, interpretation of data, and identification of aberrant values affecting chemistry results. Topics include human organ system function and testing, endocrinology, blood gases and electrolytes, clinical laboratory calculations, toxicology, and case studies. This knowledge will also be applied to problem-solving case studies typical to the clinical setting.

MD LB 4210 Clinical Chemistry Laboratory (1 Cr.)
Laboratory applications in chemical analysis of blood and body fluids in normal and abnormal physiological conditions. Emphasis is on spectrophotometric methods, interpretation of clinical measurements, quality control, troubleshooting methods and preparing standard operating protocols.

**MD LB 4300 Clinical Hematology (3 Cr.)**
This course examines normal hematopoiesis, hemoglobin structure, function, synthesis and degradation; red blood cell structure, morphology and metabolic processes; the pathogenesis and pathophysiology of anemia; morphology, function, and metabolic processes of normal white blood cells and platelets; and hematologic diseases resulting in abnormal leukocyte production and morphology. Discussion of leukemias, other hematologic malignancies, and special laboratory testing procedures will be provided.

**MD LB 4310 Clinical Hematology Laboratory (2 Cr.)**
This course provides hands-on activities in a laboratory setting for the evaluation of erythrocytes, leukocytes, platelets and hematologic diseases. Theoretical information regarding diagnostic tests, as well as practical skills used in a clinical hematology laboratory is provided.

**MD LB 4320 Hemostasis (2 Cr.)**
A discussion of normal hemostasis, hemostatic disorders, the associated clinical symptoms, and the appropriate laboratory evaluation necessary for diagnosis. Laboratory sessions help develop skills necessary for performance of diagnostic tests.

**MD LB 4400 Clinical Immunohematology (3 Cr.)**
Examination of transfusion medicine procedures and blood group serology including: ABO, Rh and other blood groups, antibody screen and identification, crossmatch and special tests, blood donation, transfusion reactions, hemolytic disease of the fetus and newborn, and quality management.

**MD LB 4410 Clinical Immunohematology Laboratory (2 Cr.)**
Resolution of basic and intermediate serological problems encountered in a simulated immunohematology laboratory. Emphasis is placed on development of testing technique and problem based learning skills.

**MD LB 4500 Pathogenic Microbiology (2 Cr.)**
This course provides a basic understanding of medical microbiology: characteristics of clinically significant bacteria, their biochemical profiles, media for isolation, identification of select pathogens, and antimicrobial susceptibility testing. Clinically significant viruses and mycobacteria and means for their laboratory identification are introduced.

**MD LB 4510 Pathogenic Microbiology Laboratory (1 Cr.)**
Laboratory section accompanying MDLB 4500. Weekly laboratory exercises highlight basic identification processes for major groups of bacterial pathogens.

**MD LB 4511 Molecular Diagnostics (2 Cr.)**
Introduction to nucleic acid isolation, amplification, and detection techniques used in infectious disease, genetic, and oncology testing in the clinical laboratory.

**MD LB 4600 Diagnostic Microbiology (2 Cr.)**
Focus is on diagnostic implications of basic microbiology learned in MDLB 4500 and MDLB 4510: specimen collection, transport and processing; lab identification methods for groups of clinically significant organisms and distinction from normal
microbial flora; and clinical correlation of organisms infecting major organ systems. (2 lectures per week).

**MD LB 4610 Diagnostic Microbiology Laboratory (3 Cr.)**
This laboratory section accompanies MDLB 4600. All laboratory sessions are presented as simulated patient samples. The student learns processes of identification and documentation of results for identification of clinically significant bacterial pathogens. (4-5 labs per week).

**MD LB 4620 Parasitology/Mycology (1 Cr.)**
This course introduces students to parasites and fungi that are of medical importance with focus on life cycles, diagnostic stages, and laboratory identification methods.

### B. Senior (Second) Year:

**MD LB 5100 Principles of Education and Research Design (1 Cr.)**
The first section of this course discusses principles of education to include writing objectives and examination items as well as teaching techniques especially relevant to the medical laboratory.

In the second section, students review major steps of a research project, including how to identify research topics, evaluate the literature, construct and test a working hypothesis, analyze and interpret data, and report results. Basic research terminology and major formats of research designs are discussed.

**MD LB 5130 Laboratory Management (2 Cr.)**
Study of planning, organizing, staffing, directing, coordinating, and budgeting in clinical laboratory organizations.

**MD LB 5200 Applied Clinical Chemistry I (3 Cr.)**
Clinical experience in routine chemical analysis of blood and other body fluids in defining diagnoses and detecting unknown diseases.

**MD LB 5210 Applied Clinical Chemistry II (1 Cr.)**
Clinical experience in special chemical analyses used to assay biochemical metabolites, tumor markers, enzymes, hormones and vitamins. Clinical analysis of therapeutic medication and drugs of abuse (toxicology). Use of chromatography and mass spectrometry to determine concentration of blood and urine analytes.

**MD LB 5300 Applied Clinical Hematology I (3 Cr.)**
Clinical experience performing tests to establish a diagnosis, detect unsuspected diseases, or monitor the effects of various treatment protocols for anemias, leukemias and other hematologic disorders. Also includes experience in body fluid evaluation and urinalysis.

**MD LB 5310 Applied Clinical Hematology II (1 Cr.)**
Includes experience in a special hematology laboratory performing tests designed to aid in the differential diagnosis of leukemias, lymphomas and other hematologic disorders. Also includes rotations in the immunologic and hematologic flow cytometry laboratories.

**MD LB 5320 Applied Hemostasis (1 Cr.)**
Evaluation of normal hemostasis, hemostatic disorders, the associated clinical symptoms, and the laboratory testing necessary for diagnosis. Includes laboratory practice in the performance of diagnostic tests.

**MD LB 5400 Applied Clinical Immunohematology (3 Cr.)**
Practical application of immunohematology laboratory skills including: donor screening and phlebotomy, processing of whole blood into components, and transfusion therapy; prenatal, perinatal and neonatal specimen evaluation; pretransfusion compatibility testing and investigation of transfusion reactions; and quality management principles.

**MD LB 5500 Applied Clinical Microbiology I (3 Cr.)**
Isolating and identifying commonly encountered pathogenic bacteria from clinical specimens.

**MD LB 5510 Applied Clinical Microbiology II (1 Cr.)**
Isolating and identifying yeasts, molds, and parasites in the clinical laboratory. Identification of viruses is available as an optional second credit.

**MD LB 5530 Applied Clinical Immunology (1 Cr.)**
The integration of the theory and practice of immunology in a clinical setting including immunologic assays used in the diagnosis of infectious disease, autoimmune disorders, and immune deficiencies.

**MD LB 5531 Applied Molecular Diagnostics (1 Cr.)**
Nucleic acid isolation, identification, and amplification techniques used in disease diagnosis in the clinical laboratory.

**MD LB 5600 Clinical Electives (1-3 Cr.)**
Students may register for up to two 1-week electives in specialty areas of the clinical laboratory (optional).

**MD LB 5900 Clinical Correlations (1 Cr.)**
This capstone course is designed to enhance students' clinical experiences by providing an opportunity for reflection of events, test results, ethical situations, troubleshooting problems, and so forth that occur during clinical experiences and professional practice. In addition, students will explore a disease or condition through an interdisciplinary case study writing assignment. Likewise, the students will have an opportunity to self-evaluate professional behavior.

**XII. Challenging Courses**

Students may challenge an MD LB course by taking a comprehensive examination for the course with the approval of the instructor and the program director. Challenge examinations are provided to students who have significant work experience in a given professional area or to those who have taken a related course at another institution. A student must pass the examination with 70% or better to have the course requirement waived. Challenge examinations are offered on a credit/no-credit basis; no grade is recorded for the course challenged.

**XIII. Tuition and Fees**

Information on tuition and fees can be found in the University of Utah on-line general catalog as well as in the semester class schedules, including: rates per credit hour, means of payment, late fees, refunds, etc. Many of the MD LB courses require laboratory sessions for which fees are charged, ranging from $25 to $300 per course. Specific course fees are listed in the class schedules. Students are required to procure long-sleeve, knee-length lab coats prior to beginning the MLS Program. Lab coats are available through Linen Services at University Hospital or a small number of used coats are available for purchase in the HSEB teaching laboratory.
XIV. Scholarship and Financial Aid

For more information on the Medical Laboratory Science scholarships listed below, contact the MLS Program Director. For additional scholarships and financial aid information, contact the University of Utah Financial Aid and Scholarships Office at 105 Student Services Building, (SSB) 801-581-6211.

A. Scholarships for Medical Laboratory Science Students

1. John M. Matsen Scholarship

This scholarship is awarded each academic year to one or more junior MLS students. It is based primarily on documented financial need. Applications are submitted during fall semester.

2. American Society for Clinical Pathology (ASCP)

Scholarships are awarded yearly to students in their final clinical year in laboratory programs nationwide. The awards are based on scholastic ability, leadership activities, and community service. Applications are submitted in November. More information is available at www.ascp.org.

B. Alpha Mu Tau Fraternity (AMTF) Scholarships available through the American Society for Clinical Laboratory Science (ASCLS)

Alpha Mu Tau is a national laboratory fraternity whose purpose is the advancement of professionals in the clinical laboratory sciences. One of the prime activities of the fraternity is the granting of graduate and undergraduate scholarships for clinical laboratory science students. Additional information is available at www.ascls.org.

1. Ruth M. French Scholarship (AMTF)

This scholarship honors Ruth French for her contribution to the profession. One scholarship up to $3,000 is awarded yearly to a graduate or undergraduate applicant.

2. Dorothy Morrison Undergraduate Scholarship (AMTF)

This scholarship is awarded in memory of Dorothy Morrison, an outstanding member of AMTF. This scholarship of up to $2,000 is awarded yearly to a deserving student in a NAACLS accredited undergraduate clinical laboratory science program.

3. AMTF Undergraduate Scholarships

Several additional scholarships up to $3,000 are awarded to deserving students in NAACLS accredited programs in clinical laboratory science and are offered in memory of AMTF members.

4. ASCLS Education & Research Fund Undergraduate Scholarships

This scholarship is awarded to a deserving undergraduate student in a NAACLS-accredited program. Several scholarships for $1,500 each are awarded annually.
to deserving students in NAACLS accredited programs in clinical laboratory science.

**XV. Grading**

- 94 – 100% = A
- 74 – 76% = C
- 90 – 93% = A-
- 70 – 73% = C-
- 87 – 89% = B+
- 67 – 69% = D+
- 84 – 86% = B
- 64 – 66% = D
- 80 – 83% = B-
- 60 – 63% = D-
- 77 – 79% = C+
- < 60% = E

An overall grade average of 70% (C-) in all professional courses is required for continuance in the program. University policy will be followed for incompletes and withdrawals.

Courses for the senior year (the clinical experience) are graded in a similar manner (70% [C-] required), with examinations, practicals, and evaluations included in the final grade. A graded performance evaluation, worth 10% of the student's grade, will be completed by the Clinical Education (Teaching) Coordinator and reviewed with the student. At the completion of the rotation, the course materials are given to the faculty member responsible for the course. The faculty member will calculate the final grade and review the forms with the student as necessary. Clinical course grading policies are outlined in the “Clinical Rotation Policies.”

**NOTES**
- Faculty reserve the right to maintain a confidential and secure pool of examination questions from year to year. This means that students may not keep returned examinations. Examinations are available to review in faculty offices until the end of each course.
- Examinations in the University setting and clinical rotations are timed. Turn around time in clinical practice is critical to quality patient care, so this concept is developed and fostered throughout the MLS curriculum.

**XVI. Guidelines for Probation**

A. A student will be placed on probation if he or she does not achieve 70% (C-) in any MD LB professional course or if the cumulative GPA falls below 2.5.

B. The first semester of unsatisfactory completion of a professional course results in probation, even if the student is unsuccessful in more than one professional course. Students must repeat any professional course in which a score of less than 70% is achieved and are not permitted to begin clinical rotations.

C. Students will not be permitted to take subsequent courses if they do not successfully complete the prerequisite course unless permission is granted by the course instructor; for example, a student who scores less than 70% in MD LB 4500 would not be permitted to enroll in MD LB 4600.

D. The second semester in which a student achieves less than 70% in a professional course will result in that student's dismissal from the program, subject to review by the Program Director and the Division Chief of the MLS Program.
E. An unsatisfactory course grade is defined as receiving below 70% according to the grading policy of each instructor.

F. It is the responsibility of the MLS Program Director to document the status of each student after consultation with the appropriate faculty member.

XVII. Student Records and Privacy Rights

The Family Education Rights and Privacy Act guarantees to University students certain rights regarding their official records maintained by the University. Students, both current and former, have the right to inspect and review their educational records. Official educational records are maintained in the Office of the Registrar. Records are also maintained by the MLS Program in the Department of Pathology. The Act also requires that the University forbid the release of personally identifiable student records or information without the written consent of the student (except “directory information,” unless the student refuses permission).

XVIII. Graduation

Each student who expects to qualify for a bachelor's degree must file a written application form for graduation with the graduation division of the Registrar's Office. The application must be submitted one semester in advance of the expected semester of graduation. Students who will graduate in May must apply by November 1 of the previous year. Other semester deadlines are available on the University of Utah website. Detailed information regarding graduation regalia and commencement-related activities is available at http://registrar.utah.edu/graduation/index.php.

To graduate with a Bachelor of Science degree in Medical Laboratory Science, all general education, prerequisite science courses, and Bachelor of Science requirements must be successfully completed, as well as all professional coursework. The MLS Program requires 96 total hours of prerequisite and professional course work. In addition, all seniors are required to pass a comprehensive examination, given at the end of the clinical rotations.

Graduation exercises for the MLS Program are held in conjunction with the School of Medicine. This is scheduled approximately two weeks after the general commencement for the University of Utah.

XIX. Certification Examination

After receiving the Bachelor of Science degree in Medical Laboratory Science, and successfully completing all University and MLS Program requirements, the student is eligible to take the national certifying examination offered by the American Society for Clinical Pathology (ASCP) Board of Certification. http://www.ascp.org/Board-of-Certification.

XX. Program Committees

A. Advisory

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<tr>
<th>MLS Program Graduate</th>
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<tr>
<td>Clinical Representatives</td>
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<td>Pathologist(s)</td>
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<td>Industry Representative</td>
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<td>MLS Program Director (ex-officio)</td>
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<td>MLS Associate Program Director (ex-officio)</td>
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<td>MLS Faculty (ex-officio)</td>
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B. Admissions

MLS Program Director
Faculty as assigned

C. Grievance

Division Chief
At least two faculty members selected by MLS Program Director (one from outside program)

XXI. Appeal Procedure

If an issue arises concerning a grade, an evaluation, or an issue related to a specific course, the student should discuss the situation with the course instructor. If an issue arises concerning a program policy or procedure, the MLS Program Director should be contacted. If the problem involves the MLS Program Director, the Division Chief of Medical Laboratory Sciences (MLS) should be consulted. If it appears there is justification for the concern, the student will be directed to submit a written statement addressing the problem. If it involves an instructor in the professional courses, the MLS Program Director will discuss the matter with the instructor in question to seek solutions to the problem. When the matter involves the clinical affiliate, the student is instructed to consult the Clinical Coordinator and/or the MLS Program Director. If the problem is not resolved to the student's satisfaction, a grievance committee of at least two faculty members (one from outside the program) and the Division Chief will hear the complaint of the student and the response from the faculty member involved according to policies and procedures detailed in the University’s Code of Student Rights and Responsibilities.

Faculty members are qualified as professionals to observe and judge all aspects of a student’s academic performance, including demonstrated knowledge, technical and interpersonal skills, attitudes and professional character, and ability to master the required curriculum. If the student still feels that he or she has been subject to arbitrary or capricious grading or unfair evaluation processes or practices, an appeal can be made according to the policies and procedures detailed in the University’s Code of Student Rights and Responsibilities (“Student Code”) www.regulations.utah.edu/academics/6-400.html.

XXII. Student Information and Policy Section

A. Professional and Ethical Standards

Students are expected to maintain a high standard of ethical behavior and conduct themselves in a professional manner. Many characteristics define a Medical Laboratory Scientist as a “professional” and as one who adheres to ethical principles. In addition to affective objectives previously defined, these ethical principles also include:

- displaying accountability for the quality of laboratory tests performed
- maintaining high standards of practice
- exercising sound judgment in performing and interpreting laboratory testing
- respecting patient privacy
- respecting peers, instructors, patients, and other members of the healthcare team
- complying with relevant laws and regulations governing the practice of medical laboratory science
• seeking continuing education in order to improve technical skills and knowledge

B. **Student Behavior**

Successful completion of the MLS Program does not only include acceptable academic performance, but also encompasses behaviors, attitudes, and values that students display or assume. Examples of unacceptable student behavior include:

- cheating on examinations, practicals, or assignments
- plagiarizing assignments
- failing to address faculty, clinical instructors, staff, or peers in a respectful manner whether in verbal or written formats
- repeatedly missing or arriving late for classes
- failing to follow verbal or written instructions
- displaying an uncooperative or negative attitude with peers, faculty, staff, clinical instructors or other members of the healthcare team
- falsifying laboratory results in any situation (student laboratory or clinical rotation sites)
- divulging confidential patient information
- arriving impaired for classes because of substance abuse

Students are expected to follow the University of Utah Student Code of Conduct. More information is available in the Code of Student Rights and Responsibilities at [http://www.admin.utah.edu/ppmanual/8/810.html#SECTIONV](http://www.admin.utah.edu/ppmanual/8/810.html#SECTIONV) or at [http://www.regulations.utah.edu/academics/6-400.html](http://www.regulations.utah.edu/academics/6-400.html).

Professional and ethical standards, as well as student behavior, will be evaluated by faculty during the first year of the MLS Program, through self-reflection, and by clinical instructors during internships.

Unprofessional or unethical behavior will be grounds for dismissal from the MLS Program.

C. **Academic Dishonesty**

Students are considered dishonest if any of the following situations occur at any time during progression in the MLS Program. Examples include:

- assistance is given or received during an examination or inappropriately during progression in the MLS Program:
  - unauthorized use of or possession of digital or electronic devices
  - unauthorized use of notes
  - verbal or written communications with other students

- information concealed on the body or in clothing is used during an examination.

- information is plagiarized. Plagiarism is defined as the use of words or ideas of another (from the internet or any source) without proper citation.

- answers are copied from other students’ examinations.

- online examinations or quizzes are printed, distributed, or shared.
• information regarding examination content is shared.
• any violation of academic policies defined by individual course instructors.

D. **Policy for Violations of Academic Honesty**

If academic misconduct occurs in a didactic (University) or clinical (internship) setting with an examination or assignment, or if some other violation of academic honesty occurs, the following action will be taken:

1. A 0% will be given for the examination or assignment.
2. The student will be placed on probation with counseling by the MLS Program Director.
3. A letter documenting the incident will be placed in the student’s file.
4. If a second critical incident occurs, the student will be dismissed from the program subject to review by the Program Director and Division Chief.

E. **Student Grievance Procedure**

1. **Purpose:** To provide a means by which any student may:
   a. Express a grievance or complaint, pertaining to a condition of the MLS Program without fear of reprisal.
   b. Expect a fair, equitable and prompt response from the University of Utah MLS Program in response to any grievance.
   c. Have access to a review process.

2. **Procedure:**
   a. If a student has a grievance, he or she should first discuss the situation with the MLS Program Director who will make every reasonable attempt to resolve the problem to the satisfaction of all parties.
   b. If the situation is not resolved to the satisfaction of all parties, the MLS Program Director shall convene the department's Grievance Committee.
   c. The Grievance Committee, after talking with the student, instructor, and other parties, and examining all aspects of the grievance, will follow the student code in achieving a resolution of the grievance. The University's grievance process as defined in the Student Code will be the final action.

F. **Probation and Dismissal**

1. **Probation:** If a student fails any professional course (didactic or clinical rotation), the student will be placed on academic probation and will be interviewed by the MLS Program Director. The student will be
required to repeat all failed courses. A written report will be placed in the student’s file.

2. **Dismissal:** Failure of any additional course(s) beyond the initial probation semester will be grounds for dismissal from the program. Unethical or unprofessional behavior by a student will also be grounds for dismissal from the program. If the behavior is not corrected following written notice or if considered to be a very serious first offense, dismissal will follow. Dismissal for any reason will be decided by a consensus of the MLS Program Director and the Division Chief.

G. **Student Counseling**

The University of Utah provides a number of counseling services in the following areas: academic advising, career development, learning skills and reading, personal counseling, marriage/family/premarital counseling, testing services, crisis intervention, and tutoring. The University Counseling Center is located in room 426 of the Student Services Building (SSB), phone 801-581-6826. For after-hours emergencies, contact the 24/7 Crisis Line at 801-587-3000. University College (academic advising) is located in 450 SSB, phone 801-581-8146.

H. **Employment**

Students are encouraged to work in a position related to the field of medical laboratory science if they so desire. However, students should not attempt to work more than part-time while in the program. Part-time work must not interfere with clinical rotation schedules or on-campus lecture and laboratory sessions.

I. **Gifts**

Faculty at the University of Utah are prohibited from accepting gifts from students that may in any way influence their ability to be objective regarding students’ academic performance in University courses. MLS faculty should not accept gifts or favors from students if the faculty member has reason to believe that such gift or favor is motivated by a desire to secure some academic advantage. MLS students are therefore asked not to give gifts to faculty members.

Faculty members in the MLS Program are likewise discouraged from giving gifts as faculty to students. With the number of students in the program, there are many life events occurring within the student population. A potential problem exists in that some students will receive gifts, while others may be inadvertently missed. If a faculty member wishes to give a gift to a student on an individual basis (person to person rather than faculty to student), that is their prerogative, but it should not be done in class or as a part of any MLS Program activity.

J. **Electronic and Digital Devices**

Lectures and laboratory discussion sessions may be audio-taped with instructor’s prior permission only. No other type of electronic or digital device is permitted in laboratory sessions or during lecture and/or laboratory examinations. Students violating this policy are subject to consequences outlined by each MLS faculty member as defined in individual course syllabi. Laptop computers may only be used during lectures with permission of the primary course instructor and are not permitted during examinations or when guest speakers are presenting, unless
specified as acceptable by the primary course instructor. Likewise, no type of electronic or digital device is permitted during clinical rotation examinations, including cell phones. Examinations completed during clinical rotations may not be physically administered within the "laboratory," but may be in such locations as the library or an office. Regardless of location, whenever an examination is administered, no type of electronic or digital device including cell phones is permitted. Clinical instructors will document all breaches of this policy. Abuse of this policy may result in additional disciplinary action and possible dismissal from the MLS Program.

Even outside of class, students should be aware that unwise or inappropriate use of social media can negatively impact the educational experience, or possibly career opportunities if conducted during clinical rotations. Derogatory, intimidating, inflammatory, or otherwise inappropriate communication will not be tolerated and may lead to disciplinary action and possible program dismissal.

K. Part-time Status

At the time of acceptance into the MLS Program, students may elect to complete the program on a part-time basis. Part-time is defined as registering for less than 15 (2+2 students) or 16 (post-baccalaureate students) credit hours in fall semester or less than 17 (2+2 students) or 18 (post-baccalaureate students) credit hours in spring semester. Note that a part-time option is not available for the clinical rotation component of the MLS Program. The following policies apply to part-time status:

- A post-baccalaureate student who elects to complete the program on a part-time basis forfeits any opportunity to begin clinical rotations on a priority basis.

- Part-time students must complete the professional coursework (didactic component of the program) in two years or less. The "final" or clinical rotation component of the program must be completed in one year or less. The semester plan for progression in the program on a part-time basis is available from the MLS Program Director.

L. Personal Hygiene and Attire

Students should be respectful of peers and instructors by practicing daily hygiene. Hair, teeth, body, and clothes should be clean. Deodorant should be used. Clothes should also be in good condition and appropriate for the laboratory or lecture setting. Revealing or excessively tight clothing is not allowed. Long hair must be tied back as a safety precaution in the laboratory, so as not to become caught in instrumentation, and to avoid interfering with the performance of laboratory procedures. Please refer to the Safety Manual for the Laboratory Dress Code Policy and the Appropriate Attire section of the Clinical Rotation Policies.

XXIII. Professional and Community Organizations

Students enrolled in NAACLS-accredited programs are eligible for free membership in the American Society for Clinical Pathology (ASCP). Benefits of membership include access to on-line journals, opportunities to apply for scholarships, attend workshops for free, participate in the National Student Honor Program, and receive e-mail updates relevant to medical laboratory science. More information is available at www.ascp.org/students.
Students are also eligible to join the American Society for Clinical Laboratory Science (ASCLS) as a student member. Refer to www.ascls.org for more information. (NOTE: student members of ASCLS are automatically members of the state organization, ASCLS-Utah).

In addition, students may find useful information and possible membership opportunities through the following:

- American Association for Clinical Chemistry (www.aacc.org)
- AABB (www.aabb.org)
- American Society for Microbiology (www.asm.org)
- American Society of Hematology (www.hematology.org)
- South Central Association of Blood Banks (www.scabb.org)

Students are also encouraged to join the University of Utah Medical Laboratory Science Professional Club (MLSPC). The MLSPC aims to create an alumni association as well as a networking community for Medical Laboratory Science and Pre-Medical Laboratory Science students at the University of Utah. It seeks to provide members with opportunities that will further them in their academic and professional careers by contributing prestigious guest speakers, volunteer opportunities both domestic and abroad, as well as potential leadership experiences. It will also promote ethical thinking and practice parallel to academic honesty and integrity in order to produce an elite group of professionals ready to undertake the field of Medical Laboratory Science. Contact the MLSPC Advisor for more information.

XXIV. Student Health Insurance

Students have three options for health care coverage:

1. Coverage by parents' policy
2. Coverage by own policy or employer-related policy
3. Coverage by policy through the University’s Student Health Service.

Medical care is also available through the Student Health Center on a fee-for-service basis to students who do not carry insurance.

In the event a student does not have health insurance, her or she must sign a waiver stating that the MLS Program and Department of Pathology are not responsible for payment of health costs incurred while the student is in the program.

Students receive specific instructions pertaining to safety for themselves, other students, and patients during their professional pre-clinical courses in addition to their instruction during the clinical experience. The introductory course MD LB 3600 has a significant segment dealing with laboratory safety.

XXV. Campus Facilities

A. Libraries

The Spencer S. Eccles Health Sciences Library, which serves the Health Sciences Center, is located in a separate building immediately south of the
Medical Center and School of Medicine and north of the Spencer F. and Cleone P. Eccles Health Sciences Education Building (HSEB). The upper level of the library is connected to the 2nd floor of the HSEB via an enclosed walkway.

The Eccles Library welcomes students, staff, and faculty into a newly refurbished building. Librarians and staff on the main level offer in-person assistance. Computers, study carrels, and comfortable lounge areas are located on the main and upper levels. Wireless access to the internet is available throughout the library. The print journal collection is available on the lower level, though many journals are available electronically. Library faculty members provide instruction in the use of online databases (PubMed and Scopus) and software programs (EndNote, Excel, PowerPoint).

Visit the library website at http://library.med.utah.edu. Library hours vary and are posted on the website; a map provides directions and parking options. To contact the library call 801-581-5534; or e-mail ehsl-reference@lists.utah.edu.

The Hope Fox Eccles Health Library serves as a branch of the Spencer S. Eccles Health Sciences Library and is located adjacent to the University Hospital main lobby. It is open from 8:00 a.m. until 6:00 p.m. Monday through Friday and from noon until 6:00 p.m. on Saturday and Sunday. Phone: 801-581-4685. The mission of the clinical library is to provide quality health information services to the patients, visitors, and staff of University Hospital, as well as the general community.

B. Bookstores

The University Bookstore is located southwest of the Student Union Building. 801-581-6326

The Health Sciences Branch is located on the first floor of the Health Science Education Building. 801-581-8049
UNIVERSITY OF UTAH
MEDICAL LABORATORY SCIENCE

CLINICAL ROTATION POLICIES

Note: While the following policies are specific to the clinical rotations, students are reminded that all previous objectives, competencies, essential requirements, guidelines, standards and policies still govern their clinical rotation experiences.

I. Introduction

The clinical affiliates of the Medical Laboratory Science (MLS) Program at the University of Utah provide clinical training for MLS students. It is the goal of these institutions to assist MLS students in completing their education by providing a variety of clinical laboratory experiences and exposure to professional, academic and business atmospheres. Furthermore, clinical affiliates assure that students are not substituted for regular qualified staff in the workplace.

II. Details

A. Current Clinical Affiliates and Training Sites

- Alta View Hospital (IHC)
- ARUP Central
- ARUP Donor Center
- ARUP University Hospital Clinical Lab
- IMC Central Lab (IHC)
- Jordan Valley Hospital
- Jordan Valley Medical Center West Valley Campus
- LDS Hospital (IHC)
- Park City Medical Center (IHC)
- Riverton Hospital (IHC)
- South Jordan Clinical Lab at Daybreak (UUHC)
- St. Mark’s Hospital

B. Objectives

At the completion of the clinical rotation, each student will be able to effectively or successfully:

1. Apply previously learned skills and knowledge from the MLS professional courses to the clinical situation.

2. Interact with patients and other health care professionals to obtain appropriate samples for testing.

3. Communicate with laboratory personnel and others on the health care team.

4. Perform quality control protocols in each laboratory, including recognizing errors or discrepancies in test results and taking the appropriate corrective action.

5. Demonstrate minimum competencies in laboratory testing as delineated in each rotation.
6. Correlate laboratory findings as a basis for problem solving and decision making.

7. Utilize the laboratory computer system to adequately perform and report testing under direct supervision of the teaching technologist.

8. Recognize and apply the principles of management and education used in the laboratory.

9. Pass a comprehensive examination at the end of clinical rotations with > 60%.

C. Procedure for Alternates in Clinical Rotations

Due to the careful admission process used to determine the number of students usually accepted to the MLS Program, the possibility that students will not be accommodated in clinical internship experiences has never occurred. The priority for the MLS Program is to always obtain clinical rotation sites for students who are qualified and ready to begin the clinical experience. Given the size of the Salt Lake Valley, there is ability to obtain clinical sites as needed. Nevertheless, should some unforeseen problem occur, students in the MLS Program should know that every effort will be made to accommodate their clinical experience at the time it is scheduled. If a clinical affiliate is not available, students will be assigned rotation dates in order of their current grade point average for MD LB prefixed courses only.

D. Clinical Rotation Schedule

Every attempt is made to schedule students in clinical rotations to consider proximity issues and personal requests. However, each clinical affiliate provides the MLS Program with restrictions and limitations that may impact placements. Note that clinical rotations are assigned only to students in good standing in the MLS Program and who have successfully completed all didactic MLS courses. Rotation assignments are not made for students who are on probation or who are in their first year of a part-time schedule. Furthermore, clinical rotations will be canceled for any student who is placed on probation after the rotation schedule has been defined.

Arrangements for transportation, childcare, and work during clinical rotations are the responsibility of the student.

E. Clinical Rotation Format

During the 18-week clinical rotation, students spend a minimum of six hours per day five days a week, in each department. A mandatory orientation session is conducted prior to the start of each clinical rotation cycle. Although several clinical affiliates provide support for the MLS Program, the majority of clinical experiences are completed at the Associated Regional and University Pathologists (ARUP) Laboratories. The clinical rotation consists of the following semester courses:

- MD LB 5200 – Chemistry 3 weeks
- MD LB 5210 – Special Chemistry 1 week
- MD LB 5300 – Hematology 3 weeks
- MD LB 5310 – Special Hematology, Flow Cytometry 1 week
- MD LB 5320 – Hemostasis 1 week
MD LB 5400 – Blood Bank 3 weeks
MD LB 5500 – Microbiology 3 weeks
MD LB 5510 – Mycology, Parasitology, AFB 1 week
MD LB 5530 – Immunology 1 week
MD LB 5531 – Molecular Diagnostics 1 week

Senior MLS students take MD LB 5130 (Laboratory Management) in the fall semester. MD LB 5100 (Principles of Education and Research Design) is taught spring semester.

MD LB 5900 (Clinical Correlations) is also offered to senior MLS students during spring (2+2 students) or summer (post-baccalaureate students) semesters.

F. Comprehensive Examination

A comprehensive examination of 100 multiple-choice questions covering all laboratory subjects must be taken after completion of clinical rotations and passed with > 60%. Those students who score less than 60% must reference the questions missed (cite the reference and page number where the correct answer is found). The department will approve eligibility to take the national certification examination only after this examination is successfully completed.

G. Grading and Evaluation Systems

1. Grading

Grades are assigned as each department rotation is completed and are a composite of three areas: cognitive, psychomotor, and affective. Grades will be determined as follows:

40-50 % = Examinations, quizzes, and study questions (cognitive)
40-50 % = Practical Examinations (psychomotor)
10 % = Clinical performance evaluation (affective)

Note: The clinical teaching coordinator and the respective MLS faculty member will determine the exact written/practical percentages for each rotation.

70% (C-) is required to pass all clinical courses.

The number of written and practical examinations vary with each department, depending on the length of rotation. Typically one written examination and one practical examination are administered each week in most departments. Written examination scores and practical examination scores will be averaged separately. These averages will be calculated along with the evaluation points to obtain the final grade for the department rotation. Make-up examinations will be given for excused absences only, such as illness (with doctor's note) or death in the immediate family. The respective MLS faculty member is responsible for assigning and posting the final grade for each clinical rotation course.

Refer to the Student Information and Policy Section of this handbook for reminders regarding professional and ethical standards, student behavior, and other policies that govern grading and conduct during clinical rotations.
2. Evaluation of Student Performance

The clinical performance evaluation assesses student performance with technical skills, application of knowledge, work habits, and attitudes that are necessary in clinical laboratories. The Clinical Education (Teaching) Coordinator for each department will evaluate the student's clinical performance. At the discretion of the Education Coordinator, progress and/or evaluation interviews may be attended by the MLS Program Director.

3. Student Evaluation of Instruction

At the end of each departmental rotation, the student completes an online evaluation regarding the teaching in that department. The confirmation of the last page of the survey should be printed and submitted either to the Education Coordinator or the MLS Program to document completion of the survey. The survey should be completed within 24 hours of finishing the rotation. Failure to complete the evaluation could jeopardize student's progress in the program. Helpful comments and suggestions will be used to improve and strengthen the program. As students express comments, specific examples should be used to clarify comments. These evaluations are reviewed annually by the Education Coordinators, MLS faculty and the MLS Program Director.

H. Minimum Competency Reports

It is the student's responsibility to keep track of these reports and to document the procedures learned as they are completed in each department. They are to be reviewed and signed by the Education Coordinator, who will attach them to the student's evaluation and forward them to the Clinical Coordinator or the MLS Program Director who will place them in the student's permanent file. Note that procedures listed are minimums and each Education Coordinator or designee may assign additional procedures as required.

I. Attendance, Holiday, and Sick Policy

Students should be prompt and arrive in the department at the pre-arranged time scheduled by the Clinical Teaching Coordinator in that department.

An attendance sheet will be used in each department to monitor attendance and punctuality. For every two unexcused occurrences of tardiness, or every one unexcused absence occurring within a rotation, five percentage points will be deducted from the final score of the rotation.

The time commitment for most clinical rotations will be a minimum of six hours per day, which includes hands-on training at the bench, homework, library assignments, examinations, and study time. Scheduled hours vary with each rotation, but typically are between 7-9 a.m. arrival times and 2-4 p.m. departure times. On occasion there may be a few days in one or two departments where rotations are scheduled for afternoon or evening hours. Notice of the specific days for these special hours will be several weeks to months in advance, so that appropriate plans can be made. Students may not request to leave early or arrive late because of work commitments. Any "time-off," except for sick leave, must be approved ahead of time by the Education Coordinator and the MLS Program Director. The reason for this
policy is to maintain consistency in the attendance from day-to-day and from one clinical site to another. Support of this policy is mandatory.

Attendance is mandatory for the full six hours per day for all clinical rotations, as instructed by the Education Coordinator of each rotation. Students may not request to arrive late or leave early in order to satisfy an employment commitment. Work schedules must not interfere with clinical rotation schedules. Clinical instructors will document all incidents of un-excused tardiness and absence, and the clinical course grade will be lowered according to the policy stated above. It will be the student’s responsibility to sign in and out each day. Students will follow the holiday schedule of the institution where they are assigned. The final decision rests with the Education Coordinator. For questions, contact the MLS Program Director.

Examples of sufficiently important reasons for an excused absence from clinical rotations are:

1. Illness requiring physician attention. A written note from a physician is required.
2. Death in the immediate family. The MLS Program Director or Clinical Coordinator should be notified as soon as possible.

If sick, a student must contact the Education Coordinator or section supervisor directly in the department by 8:00 a.m. so he or she can reschedule their time. If a student becomes ill while at work, the Education Coordinator has authority to send him or her home. Excessive sick time must be made up in the department. This rescheduling will be at the discretion of the Education Coordinator in consultation with the MLS Program Director.

Clinical instructors plan the day-to-day activity schedules for students in department rotations well in advance (weeks or months) of the students’ arrival. Many factors have to be considered in these pre-arranged schedules, e.g., adequate staffing, staffing assignments, availability of instruments/equipment and so forth. Student absences disrupt these schedules. While occasional illness or other infrequent emergencies may be unavoidable, other reasons for absences will not be allowed without prior and timely approval from both the MLS Program Director and the Clinical Education Coordinator of the rotation department affected. Any request for a one or two day absence during the 18 weeks of clinical rotations must be submitted in writing to both people listed above, at least one month prior to that date. The MLS Program Director and Education Coordinator will respond in writing within one week with their approval or disapproval. If this becomes a disruptive pattern, additional requests will be denied. Make-up sessions may or may not occur for any absences—excused or unexcused. The Clinical Education Coordinator has complete authority to make this decision. Clinical site learning activities are extremely difficult, if not impossible, to reschedule. The student may receive a zero for that day’s activities. The student will still be held responsible for all content material from the schedule for the written and practical examinations. Students may be on their own for remediation of any activities missed during an absence. Any and all absences without proper notification, according to stated policies, will be counted as unexcused absences and result in the deduction of points from the final grade, as per existing written policy. Please make the most of these clinical experiences.

Students should contact the Education Coordinator in a new department by no later than the Wednesday of the week before a new rotation starts. Students
must also pick up their rotation packet one week prior to the new rotation start date. Failure to do so will result in a 5% deduction from the final rotation grade. Note that some clinical rotation materials are accessed electronically.

J. Policy for Employment During Clinical Rotations

It is strongly recommended that students in the Medical Laboratory Science Program at the University of Utah do not work full-time during the 18 weeks of the clinical experience curriculum. While it is recognized that students may need to work during their college years, students must also understand and abide by the following policy:

Attendance is mandatory for the full schedule of time for all clinical rotations, as instructed by the Education Coordinator of each rotation.

Clinical instructors will document all incidents of tardiness and absence, and the student’s clinical course grade will be lowered according to established grading policies. Excused tardiness or absence (other than illness requiring written note from physician) must be pre-approved by both the Education Coordinator and the MLS Program Director.

Abuse of this policy will result in additional disciplinary action with possible dismissal from the program.

K. Appropriate Attire

The clinical laboratory requires that each student be clean, appropriately dressed, and neat in appearance.

• Students may be asked to provide their own white lab coat for use unless otherwise indicated by a clinical affiliate. These should be cleaned weekly. Students are required to adhere to the safety policies and the dress codes established by each clinical affiliate. These site-specific requirements will be discussed during the clinical rotation orientation session or through site-specific orientations.

• Students should be respectful of peers and instructors by practicing daily hygiene. Note that long hair must be tied back as a safety precaution and to avoid interfering with the performance of laboratory procedures.

• Failure to abide by safety and dress code policies will result in disciplinary action with possible dismissal from the program.

L. Professional Conduct (Professionalism in the Work Place)

Students are expected to conduct themselves in a professional manner.

Good laboratory practice is dependent on professional and ethical behavior, along with a positive attitude. Conduct in the clinical laboratory is regularly monitored during the clinical rotations. Lapses in conduct will be brought to the student's attention by the MLS Program Director, documented, and if not corrected, will result in academic penalties not to exceed 10% of the final grade for each rotation involved.

Refer to the Student Information and Policy Section of this Handbook for reminders regarding professional and ethical standards, unacceptable behaviors, policies
regarding electronic and digital devices, as well as other procedures that govern the clinical rotation experience.

M. Laboratory Safety Tips (Refer to Clinical Laboratory Safety: a Manual for Students for policies and procedures)

1. No eating or drinking is allowed in the laboratory.
2. No smoking is allowed in the building.
3. Think safety:
   a. Be careful with needles and glass products, and dispose of them in the puncture resistant containers provided.
   b. Use care when handling reagents. Transport all acids and bases in their safety containers.
   c. No mouth pipetting is allowed in the laboratory.
   d. Use proper lifting techniques to avoid back injuries.
4. Wash hands and clean and disinfect the work area often with a 0.5 % Clorox solution (1:10 dilution) or other disinfectant provided.
5. All persons processing blood and body fluid specimens must wear gloves.
6. Lids of containers should be covered with gauze or tissue when opening.
7. Masks and protective eyewear should be worn if mucous membrane contact with blood or body fluid is anticipated.
8. Gloves must be changed after completion of specimen processing.
9. Properly dispose of all infectious agents, blood products and body fluids in biohazard bags to be autoclaved.
10. Avoid clutter in the work area and always leave the work area neat and organized.
11. All persons must remove personal protective equipment (PPE) and wash their hands after completing laboratory activities and before leaving the laboratory.

N. Reporting Accidents and Incidents

Any accident or incident involving MLS students should be reported immediately to the department supervisor and to the MLS Program. The accident or incident then needs to be documented promptly and thoroughly. Injuries include cuts or needle punctures as well as more serious incidents.

While enrolled in the program (including completing clinical rotations), students are required to be covered by a health insurance policy or sign a waiver form that excludes the clinical sites and the MLS Program from any responsibility for student health care. Students are responsible for paying any health care costs incurred while in the program.

O. Student Liability Insurance

Students at the University of Utah (including MLS students) are covered for liability protection under a University umbrella policy.

P. Termination of Clinical Rotation

Any clinical affiliate, after consultation with the MLS Program Director and with proper documentation, has the right to deny or withdraw a student from the clinical rotation site if that student’s work and conduct have a detrimental
effect on its clients and personnel. This restriction also applies to any student who has previously been discharged by the clinical affiliate.

Q. Clinical Affiliation Agreements

These agreements detail specific responsibilities of both the academic institution and the clinical site. Each clinical affiliate has entered into a formal agreement with the University of Utah MLS Program to provide clinical training for medical laboratory science students. Agreements are available for review from the Program Director or Clinical Coordinator.

R. Communication During Clinical Rotations

Effective and adequate communication with students and affiliates during clinical rotations is important in ensuring an optimal educational experience. Program officials and MLS faculty interact with clinical instructors, supervisors, education coordinators and students as necessary before and during the clinical internship period. When students are in clinical rotations, formal visits are made by the MLS Program Director, Associate Program Director, or Clinical Coordinator to all clinical sites.