TABLE OF CONTENTS (ALPHABETIZED)

ACADEMICS
Admissions Criteria to Clinical Year Program ......................................................... 11
Advising – Andrews University Campus ................................................................. 11
Advising – Before Clinical Practica ....................................................................... 11
Advising – During Clinical Practica ...................................................................... 11
Class Load .................................................................................................................. 11
Competency Examinations ..................................................................................... 12
Continuance in the Clinical Year Program .............................................................. 12
Grades ......................................................................................................................... 12
Graduation .................................................................................................................. 12
Program Pin ............................................................................................................... 13

APPENDIX A
Academic Dishonesty and/or Plagiarism ................................................................. 31
Admissions Criteria to MLS Clinical Year (Admissions Process) ......................... 34
Admissions Criteria to MLS Clinical Year (Minimum GPA) .................................. 33
Attendance During Clinical Practicum .................................................................... 35
Clinical Year Seminars ............................................................................................. 36
Competency Examinations ..................................................................................... 39
Credit by Examination ......................................................................................... 40
Criteria for Accepting Non-Andrews University Fundamental Courses ............ 37
Health & Immunization Requirements .................................................................... 41
Locker Use .................................................................................................................. 52
Personal Protective Equipment ............................................................................. 54
Scholarship Awards ................................................................................................. 42
Student Code of Professional Conduct ................................................................. 43
Student Dress ............................................................................................................ 45
Student Employment at Clinical Affiliates .............................................................. 46
Student Grievance Procedures ............................................................................. 49
Student Preparation for Certificate Examination .................................................. 48
Transcript Evaluation of All Non-USA Degrees ..................................................... 53

CERTIFICATION EXAM
Application Forms .................................................................................................... 27
Fees .............................................................................................................................. 27
International Certification and State Licensures .................................................... 27
Philosophy ................................................................................................................ 27
Schedules ................................................................................................................. 27
Students’ Responsibility ............................................................................................ 27

CLINICAL YEAR
Academic & Clinical Year Calendar ...................................................................... 18
Attendance: Andrews Campus ............................................................................... 14
Attendance: Chapels, Forums and Co-Curricular Choices .................................... 14
Attendance: Clinical Practica ................................................................................. 14
# TABLE OF CONTENTS (CONTINUED...)

Class Schedule - Fall & Spring Semester (Sample Schedule) .......................................................... 20
Class/Lab Schedule: Andrews University Campus ...................................................................... 14
Class/Lab Schedule: Clinical Practica ....................................................................................... 15
Commitments/Deadlines for the Clinical Year ............................................................................. 21
Courses/Classes for the Clinical Year (Curriculum Map) ............................................................ 19
Criminal Background Check ........................................................................................................ 15
Disability Accommodation .......................................................................................................... 15
Drugs of Abuse Screening ........................................................................................................... 15
Health/Immunization Documentation ......................................................................................... 15
Holiday Travel .............................................................................................................................. 16
Registration: Andrews Campus ...................................................................................................... 16
Registration: Clinical Practica ...................................................................................................... 16
Social Security Number ............................................................................................................... 16
Student Dress ............................................................................................................................... 16
Student Trainee License ............................................................................................................... 17

## CLINICAL SITE INFORMATION

Assignment to a Clinical Site ......................................................................................................... 25
General Information ..................................................................................................................... 25
Housing ........................................................................................................................................ 25
Transportation ............................................................................................................................... 25
Requirements by Clinical Affiliates .............................................................................................. 25

## DEPARTMENTAL SERVICES AND GUIDELINES

Bulletin Boards/Digital Displays .................................................................................................. 24
Certificate Ceremony .................................................................................................................... 24
Departmental Assemblies ............................................................................................................ 24
Departmental Office ..................................................................................................................... 24
Equipment .................................................................................................................................. 24
Faculty Office Hours .................................................................................................................... 24
Mailboxes ...................................................................................................................................... 24
Personal Electronic Equipment .................................................................................................... 24
Student Laboratories .................................................................................................................... 24

## FINANCIAL INFORMATION

Certification Exams ....................................................................................................................... 22
Criminal Background Check ........................................................................................................ 22
Course Fees .................................................................................................................................. 23
Financial Aid ................................................................................................................................. 22
Graduation Fee .............................................................................................................................. 22
Health Status Documentation & Drug Screen .............................................................................. 22
International Transcript Evaluation Fees .................................................................................... 22
Medical Insurance ....................................................................................................................... 22
Professional Education Fees ....................................................................................................... 23
Students Holding a Valid Baccalaureate Degree ......................................................................... 22
Student Trainee License ............................................................................................................... 23
Tuition for Clinical Year ................................................................................................................ 23
# Table of Contents (Continued...)

## Handbook
- Purpose of the Student Handbook ................................................................. 5

## Medical Laboratory Sciences (MLS) Program
- Essential Functions ................................................................................................. 7
- Graduate Competencies .......................................................................................... 9
- NAACLS Entry-Level Competencies (ELC) .............................................................. 8
- Program Objectives & Outcomes ............................................................................ 10

## Mission Statement .................................................................................................. 6

## Performance Evaluations
- Work Habits ............................................................................................................ 26
- Personal Traits ......................................................................................................... 26
- Technical Ability ...................................................................................................... 26

## Professional Memberships
- AABB ....................................................................................................................... 28
- AACC ....................................................................................................................... 28
- ASCLS ....................................................................................................................... 28
- ASCP ......................................................................................................................... 28
- ASM ......................................................................................................................... 28

## Work Opportunities
- Workload - Andrews Campus .................................................................................. 29
- Workload - Clinical Rotations .................................................................................. 29
- Work Opportunities - Andrews Campus .................................................................. 29
- Work Opportunities - Clinical Rotations .................................................................. 29
- Work Opportunities - Clinical Rotations International Students ............................ 29
PURPOSE OF THE STUDENT HANDBOOK

The purpose of the Student Handbook is to bring together the various policies and procedures that specifically apply for students in the Department of Medical Laboratory Sciences. University policies can be found and reviewed in detail in other Andrews University publications such as the Bulletin and the Andrews University Student Handbook.

The Department of Medical Laboratory Sciences does not intend, nor claims, that this handbook supersedes any official University policy, publication, or procedure. It is the responsibility of the student to be familiar with and to follow all rules and regulations of the University. It is also the student’s responsibility to complete all course work required for admissions to and successful completion of the Medical Laboratory Science Clinical Year Program as well as all forms, applications, and University requirements for graduation. The Department of Medical Laboratory Sciences cannot and will not be responsible for the student meeting all requirements and deadlines.

Note: The content of this Student Handbook may change at any time. The department faculty reserves the right to make changes and give public notification of such as deemed necessary.
MISSION STATEMENT

The mission of the Department of Medical Laboratory Sciences, in harmony with Andrews University and the Seventh-day Adventist Church, is to prepare students for Christian service as Medical Laboratory Scientists.

The MLS department encourages faculty in professional, educational, and spiritual growth.

The MLS faculty educates students to develop excellence in the professional skills necessary for a life work of service in quality health care and dedication to improving the human condition.

MLS graduates will minister to the needs of others by practicing and promoting standards of excellence as medical laboratory science professionals.
MEDICAL LABORATORY SCIENCES (MLS) PROGRAM

Essential Functions

Professional skills:
- Must be able to deal with stress and maintain emotions under pressure and time constraints in a socially acceptable manner.
- Must be able to maintain professional decorum and composure in a wide variety of situations.
- Must be able to maintain confidentiality and integrity.
- Must be able and willing to follow directions.
- Must be able to make decisions, prioritize tasks, and work on multiple tasks simultaneously.
- Must be able to both work independently and in cooperation with others.
- Must be able to apply acquired learned skills and knowledge to new situations.
- Must be able and willing to work with potential biologic, chemical, radiologic, mechanical and electrical hazards.
- Must maintain personal hygiene and neatness appropriate to the professional work place.

Communication skills:
- Must be able to communicate effectively in spoken and written English.
- Must be able to comprehend and respond to both formal and colloquial English in person-to-person interactions, in written communications, and in telephone conversations.

Physical requirements:
- Locomotion: Must have the coordination to allow free movement from one location to another in such areas as clinical and student laboratories, patient rooms, stairways, and elevators. Must be able to stand (or sit) for extended periods of time.
- Motor skills: Must have the ability to lift and move objects of at least twenty pounds. Must have the fine motor coordination to perform delicate manipulations of clinical specimens and instruments.
- Tactile requirements: Must have a sense of touch, pressure and temperature discrimination.
- Visual acuity: Must be able to distinguish colors, identify and distinguish objects. Detect fine details both macroscopically and microscopically. Must have depth perception.
- Hearing acuity: Must be able to distinguish sounds of equipment, alarms, phones, etc.

Requirements for Clinical Placement
- Transportation: Must have available independent transportation to clinical practicum rotations (Public transportation is seldom available at clinical sites).
- Student Trainee License: Must be willing to submit an application and pay the fee for trainee license if required by the state where clinical practica experience will be completed.
- Social Security Number: Must have a valid United States Social Security Number.
- Criminal Background Check: Must provide documentation of an acceptable criminal background check.
- Drug Screen: Must provide documentation of an acceptable drug screen.
- Medical Clearance: Must submit the “Statement of Medical Clearance” form signed by a US Board Certified health care provider.
- Immunizations: Must submit the “Documentation of Immunizations/Immune Status” form.

International Students must provide the Andrews University Student Service office photocopies of current I-20 document, the picture ID page of passport, and the US visa page from passport.
ENTRY LEVEL COMPETENCIES (ELC)

NAACLS Entry Level Competencies of the Medical Laboratory Scientist*

*Linked to Program Objectives (O)

At entry level, the medical laboratory scientist will possess the entry level competencies necessary to perform the full range of clinical laboratory tests in areas such as Clinical Chemistry, Hematology/Hemostasis, Immunology, Immunohematology/Transfusion medicine, Microbiology, Urine and Body Fluid Analysis and Laboratory Operations, and other emerging diagnostics, and will play a role in the development and evaluation of test systems and interpretive algorithms.

The medical laboratory scientist will have diverse responsibilities in areas of analysis and clinical decision-making, regulatory compliance with applicable regulations, education, and quality assurance/performance improvement wherever laboratory testing is researched, developed, or performed.

At entry level, the medical laboratory scientist will have the following basic knowledge and skills in:

1. (O8, 15) Application of safety and governmental regulations and standards as applied to clinical laboratory science;
2. (O1, 2, 10) Principles and practices of professional conduct and the significance of continuing professional development;
3. (O5, 6, 7) Communications sufficient to serve the needs of patients, the public and members of the health care team;
4. (O3, 4, 13) Principles and practices of administration and supervision as applied to clinical laboratory science;
5. (O11, 12) Educational methodologies and terminology sufficient to train/educate users and providers of laboratory services;
6. (O9, 14) Principles and practices of clinical study design, implementation and dissemination of results.
Graduate Competencies

The graduate of the Andrews University Program for Medical Laboratory Science is expected to:

- Correctly perform routine laboratory tests, interpretations, and problem-solving tasks as defined in the job description for a Medical Laboratory Scientist.
- Demonstrate the basic skills needed to develop expertise in any medical laboratory science specialty and conduct scientifically sound research in those areas.
- Have the professional skills to adapt easily to new job situations, new methodologies, and new instrumentation.
- Possess the interpersonal skills to be able to work effectively as a team member in the performance of duties as a medical laboratory scientist.
- Apply principles of laboratory management to the areas of human resources, education methodologies, financial, and regulatory compliance to enable cost-effective, high quality, value-based laboratory services.
- Apply principles of laboratory safety, quality assurance/performance, and laboratory information systems in order to provide effective, timely, accurate, and cost-effective reporting of laboratory data.
- Support the need for, and participation in, continuing education and proficiency testing.
- Maintain professional deportment and demeanor upholding ethical and moral values in all situations.
- Possess the skills necessary to evaluate published studies as an informed consumer.
PROGRAM OBJECTIVES & OUTCOMES

Program Objectives (O)  

Upon graduation and initial employment, the Medical Laboratory Science Andrews University graduate should be inclined to engage in Christian service as MLS Professionals and be able to demonstrate entry-level competencies in the following areas of professional practice:

1. Reflect ethical and moral attitudes as well as principles essential for gaining and maintaining the trust of professional associates, the support of the community, and the confidence of the patient and family;
2. Maintain an attitude of respect for the patient and confidentiality of patients’ records and/or diagnoses;
3. Develop and establish procedures for collecting, processing, and analyzing biological specimens and other substances;
4. Perform analytical tests on body fluids, cells, and other clinical substances;
5. Integrate and relate data generated by the various clinical laboratory departments while making decisions regarding possible discrepancies;
6. Confirm abnormal results, verify quality control procedures, and develop solutions to problems concerning the generation of laboratory data;
7. Make decisions concerning the results of quality control and quality assurance measures, and institute proper procedures to maintain accuracy and precision;
8. Establish and perform preventive and corrective maintenance of equipment and instruments as well as identify appropriate sources for repairs;
9. Develop, evaluate, and select new techniques, instruments and methods in terms of their usefulness and practicality within the context of a given laboratory’s personnel, equipment, space, and budgetary resources;
10. Demonstrate professional conduct and interpersonal skills with patients, laboratory personnel, other health care professionals, and the public;
11. Establish and maintain continuing education as a function of growth and maintenance of professional competence;
12. Provide leadership in educating other health personnel and the community;
13. Exercise principles of management, safety, and supervision;
14. Apply principles of educational methodology, and
15. Apply principles of current information systems.

Program Outcomes (PO)*

PO 1: (O1, 2, 10) Christian service as medical laboratory science (MLS) professionals.

PO 2: (O3-15) MLS Entry-Level Professional Competence

Provide MLS profession-related comprehensive instruction sufficient to meet entry-level MLS employment competencies—including attention to professional growth, personal student-professor interactions, excellent advising, and an emphasis on the spiritual dimensions of the health care field.

PO 3: Maintain Program Accreditation

*Linked to Program Objectives (O)
A C A D E M I C S

Admissions Criteria to Clinical Year Program
Admission to the Clinical-Year studies is based completion of all pre-clinical courses, grade-point average calculated for all mathematics and science courses, the recommendation of the faculty, and acceptable personal references. See Policy on “Admissions Criteria to Senior-Year Clinical Studies.”

Advising: Andrews Campus
At the time of admissions to Andrews University, “Students are assigned academic advisors based on the major chosen. Advisors function as academic guidance counselors to help students to schedule their courses, to learn how to follow academic rules and regulations, and to make decisions regarding their future. Although advisors assist students, the responsibility for meeting degree requirements and knowing the rules which govern academic matters always rests with the individual student.” (Refer to the Undergraduate Academic Policies available from https://bulletin.andrews.edu)

Academic advisors are assigned to all students by the Student Success Center. The student will receive the name of his/her advisor at registration. If a student wishes to change the academic advisor from whom he/she has been assigned, a request may be submitted to the Student Success Center.

The MLS Program and faculty, which serve as academic advisors, adhere to all University policies including advising objectives and responsibilities as stated in the Bulletin. Andrews University complies with the Family Educational Rights and Privacy Act (FERPA), the federal law that governs release of and access to student education records as describe in the Bulletin (Available from https://bulletin.andrews.edu/content.php?catoid=16&navoid=3305)

Advising: Before Clinical Practica
Advising/Orientation - Before the student leaves for clinical practica, he/she will meet with the Andrews Campus Program Faculty in an orientation session. At this time, the student will be given information such as clinical site and program policies, practicum schedules and syllabi. A question and answer period will be held. Attendance is mandatory. Failure to comply with this requirement may jeopardize the student’s ability to complete the clinical practica.

Advising: During Clinical Practica
The Education Coordinator at the clinical site will serve as an additional advisor. The Program faculty at Andrews University will communicate frequently with the student regarding matters related to his/her particular rotation.

Class Load
During the Clinical Year, a student must enroll for the required courses each semester, which total at least 16 semester credits per term. It is not permitted to enroll for less than the specified credits. In other words, the student must complete the required courses within the specified period. The Clinical Year consists of three consecutive semesters: two semesters of didactic and student laboratories followed by 16 weeks of clinical practica. If for any reason this sequence is not followed, the entire year may have to be repeated.

The Clinical Year is a 12-month program (August – July) and requires registering for a full credit load each semester. The fall semester is a 16-week semester; the spring semester is a 10-week semester; the summer semester is a 16-week semester. Refer to page 19 for the Clinical Year Curriculum Map.
Competency Examinations

The Andrews University Program for Medical Laboratory Science makes provision for students who seek to have work experience or other professional education considered in lieu of course work within the curriculum as outlined in the Program. See Policy on “Competency Examination.”

Continuance in the Clinical Year Program

The Program in the Clinical Year consists of three contiguous semesters. Fall and the first part of Spring Semesters are taught on the Andrews campus with extensive coverage of theory and laboratory exercises. During this period, the student must demonstrate a clinical cumulative grade-point average of 2.50 or above with no class grade less than a “C- (minus).”

After successful completion of the Fall and first part of Spring Semesters, students may be advanced to selected clinical affiliations for the final portion of the program. A student who does not meet the above stated GPA requirements during his/her first two semesters may be allowed to advance to clinicals if the Program faculty perceive exceptional circumstances.

Clinicals consist of 16 weeks of clinical practica. During this time, the student will gain clinical experience as he/she rotates through the various laboratory departments at affiliated clinical sites. A student may continue in clinical studies conditional upon acceptable ethical deportment, exemplary practices in laboratory procedures, patient care and satisfactory academic performance as established by program policy. See Policy on “Student Code of Professional Conduct.”

Grades

The MLS Department follows the University published grading system and grade point averages. Refer to the University Bulletin for details (https://bulletin.andrews.edu/content.php?catoid=16&navoid=3358). Grading is at the discretion of the Andrews University instructor and is defined in each course syllabus.

Graduation

Providing all degree requirements have been satisfactorily completed, graduation with a Bachelor of Science in Medical Laboratory Science (BSMLS) is scheduled for August, at the end of the Clinical Year.

Granting of the BSMLS degree and MLS Certificate are not contingent upon the students passing any type of external certification or licensure examination.

It is the responsibility of the student to make necessary arrangements regarding graduation. The student must ensure that the following are met, together with any other graduation requirements stated in the Andrews University Bulletin.

- A Graduation Application and Agreement Form must be completed by the student and returned to the Academic Records Office no later than the date specified in the Academic Calendar.
- Transcripts for transfer credits must be submitted to the Academic Records Office a minimum of 30 days before graduation.
- All Incompletes and Deferred grades must be changed to a satisfactory grade in the Academic Records Office a minimum of 15 days before graduation.
- Must obtain financial clearance from the Student Financial Services Office in order to participate in graduation exercises and/or receive a diploma.
**Graduation in absentia:** See the Andrews University Bulletin.

**Program Pin**

**MLS Program Pin (Actual size: 3/4 of an inch)**

Students that completed the Clinical Year of the Andrews University Program for Medical Laboratory Science are eligible to receive the official Program pin.
# Clinical Year

## Attendance: Andrews Campus

The *Andrews University Bulletin* states:

**Class Attendance/Absences**

"Regular attendance at all classes, laboratories, and other academic appointments is required of each student ... Whenever the number of absences exceeds 20% ... of the total course appointments, the teacher may give a failing grade. Merely being absent from campus does not exempt the student from this policy. Absences recorded because of late registration, suspension, and early/late vacation leaves are not excused. The class work missed may be made up only if the teacher allows. Three tardies are equal to one absence. Registered students are considered class members until they file a *Change of Registration* form in the Academic Records Office."

*Also, Refer to “Holiday Travel,” page 16.*

**Absences Due to Illness**

"Excuses for absences due to illness are granted by the teacher. Proof of illness is required. Residence-hall students are required to see a nurse on the first day of any illness which interferes with class attendance. Non-residence hall students should show written verification of illness obtained from their own physician..."

*Full text for General Academic Policies are available from [http://bulletin.andrews.edu/content.php?catoid=10&navoid=796&hl=class+absences&returnto=search#Attendance_at_the_University](http://bulletin.andrews.edu/content.php?catoid=10&navoid=796&hl=class+absences&returnto=search#Attendance_at_the_University)*

Decisions regarding tardiness and absences are ultimately left to the discretion of each teaching faculty member in the Program for Medical Laboratory Science.

## Attendance: Chapels, Forums and Co-Curricular Choices

Students in the MLS Program are expected to meet the University's Chapels, Forums and Co-Curricular Choices requirements established for all students during the Fall Semester. For more details, please refer to: [https://www.andrews.edu/life/involvement/co-curricular-education/index.html](https://www.andrews.edu/life/involvement/co-curricular-education/index.html)

During the on-campus portion of Spring Semester MLS Program, senior/clinical year students who are not exempted from attending Chapels, Forums and Co-Curricular Choices are required to attend a minimum of ten (10) programs prior to the beginning of the 16-week clinical practica.

## Attendance: Clinical Practica

*See Policy on “Attendance During MLS Clinical Practicum,” page 35.*

## Class/Lab Schedule: Andrews Campus

Because of program requirements, the Clinical Year is rigorous. Weekly classes or labs may begin as early as 8:00 a.m. and end as late as 6:30 pm. Within these times, schedule variances may occur and are left to the discretion of the teaching faculty. Therefore, students need to be flexible and available during class hours.
Students are not permitted to take any additional course work during the Clinical Year. A copy of the typical Fall and Spring Semester Class Schedule is included in this Handbook (see page 20).

Class/Lab Schedule: Clinical Practica

The clinical practicum schedule is based on the following:

- Information from the assigned clinical affiliation in accordance with their availability and needs.
- Strengths and weaknesses of the student as perceived by the Program faculty.
- The Clinical Affiliate Education Coordinators in consultation with their clinical instructors and the Program’s clinical coordinator or director establish clinical rotation schedules. The rotation schedule for a given clinical site will be provided to the appropriate student/s as soon as available, which may be upon arrival at the clinical site.

Criminal Background Check

In order to participate in the clinical practicum, students must provide documentation of an acceptable criminal background check to the MLS Department office by January 31. Cost for this service is the responsibility of the students. The MLS Department office facilitates this process and utilizes PreCheck, a tracking system for Clinical Year documents. Information is provided to students during the August orientation. Those students who refuse to or do not have an acceptable report may be denied participation in the clinical practica.

Disability Accommodation

If a student has, or think they have, a disability that may interfere with their learning, please contact the department chair or Program Director. Refer to the MLS Program Essential Functions (page 7).

Drugs of Abuse Screening

Clinical affiliates require mandatory testing for the presence of drugs of abuse. Students must provide documentation of an acceptable drug screen to the department office by January 31. The student is responsible for the cost of the test. The MLS Department office facilitates this process. Information is provided to students during the August orientation. Students who refuse to be tested may be denied participation in a clinical practica. Andrews is committed to zero tolerance for drugs of abuse. See Andrews Student Handbook at https://bulletin.andrews.edu/content.php?catoid=16&navoid=3367

Health/Immunization Documentation

A copy of the student’s Statement of Medical Clearance form signed by a US Board Certified health care provider must be submitted to the departmental office by January 31. The Documentation of Immunization/Immune Status form for the following must also be submitted on the same date:

- Tuberculosis (skin test or X-ray)
- Mumps
- Tetanus/Diphtheria
- German Measles/Rubella
- Measles/Rubeola
- Chickenpox/Varicella
- Hepatitis B
- Influenza
- Other vaccines or tests may be required
Other Health/Immunization forms required before advancement into clinical rotations include:

- Hepatitis B Vaccine Consent/Waiver form

**Holiday Travel**

If for some reason a student departs early or returns late, for a scheduled University holiday, each day of absence will count as TWO absences with the consequent effect on the student’s grade. It is the student’s responsibility to obtain missed material(s) from classmates. It is at the teacher’s discretion to allow makeup of assignments, quizzes, exams or labs. Typically, makeup of missed assignments, quizzes, exams, labs and other class material(s) is not possible.

**Registration: Andrews Campus**

On-line registration will follow standard procedures as listed in the Andrews University Bulletin.

**Registration: Clinical Practica**

The student must complete their Summer Semester registration prior to leaving campus for clinical rotations. Students are encouraged to make all financial arrangements prior to leaving campus to participate in their clinical practica.

*Note: If the student is unable to register, he/she will be suspended from clinical practica until the registration process is completed. Unregistered students are NOT permitted to participate in any clinical activity. Should the length of suspension compromise the quality of the clinical education experience, graduation may be delayed. This will be determined by the Department of Medical Laboratory Sciences Faculty in consultation with the Education Coordinator of the clinical affiliate where the student is assigned. The decision of this group is binding.*

**Social Security Number**

Students must have a valid United States Social Security Number prior to going to the clinical practica.

**Student Dress**

At Andrews University

For both male and female students, the style of dress should reflect principles of modesty and appropriateness rather than current fashion trends. During Fall and Spring Semesters, while attending classes on campus, MLS students are required to dress according to the Andrews University Dress Code.

When reflecting on what to wear, remember simplicity, taste, function and appropriateness. Items such as shorts/skirts, “spaghetti” straps, tight clothing, low cut, strapless or midriff blouses as well as extremes in cosmetics are not acceptable for the Andrews student. In addition, shorts and open-toe shoes are not allowed in student laboratories. All students must also wear a knee-length laboratory coat with long sleeves while attending laboratory sessions.

Students who choose to disregard safety and dress codes will be asked to leave the class or laboratory sessions. Persistent dress and safety violations will be documented, placed in the student’s citizenship file, and may jeopardize continuance in the MLS Program and at Andrews University. Refer to the Philosophy and Principles of Dress at Andrews University.

**During Clinical Practica**

Health care workers must take particular care of their appearance. Patients who are ill or anxious are even more susceptible to their environment; therefore, Medical Laboratory Scientists must be careful not to offend patient’s sensitivities.
Cleanliness is required, but the use of any type of fragrances, whether it be cologne, perfume, perfumed soaps, or lotions are strongly discouraged.

In general, clinical affiliates’ dress codes follow the same standards required by Andrews University. In addition to the styles of clothing already mentioned above as inappropriate, blue jeans may not be allowed. During clinical practica, students must conform to the institution’s dress code to which he or she is assigned. Information about a clinical site’s dress code is shared with the student on their advancement to clinicals letter. Students may also check with the Education Coordinator on the first day of clinical practica.

**Student Trainee License**

Some states require a student trainee license for participation in the clinical practica. If you are assigned to a site that requires a trainee license, the Department will provide contact information where you can submit the request for licensure. **Note that you will not be able to begin your clinical experience until the state has issued a trainee license.** Therefore, it is important to begin this process as soon as you are notified of the requirement(s).
2019-2020 MLS Academic & Clinical Year Calendar

FALL SEMESTER 2019 (August 26 – December 12)

Clinical Year Classes Begin  
August 26
Labor Day  
September 2 (no classes)
Fall Recess  
October 7 - 8 (no classes)
Thanksgiving Break  
November 27 – Dec. 1 (break begins after last class on Tuesday)
Last Day of Didactic Classes  
December 4
Study Day for Clinical Year Students  
December 5
Clinical Year Final Exams Begin  
December 6 (Dec. 6 - 12)
Clinical Year Fall Semester Ends  
December 12
Christmas Break  
December 13, 2018 - January 5, 2019 (begins Th after last exam)

SPRING SEMESTER 2020 (January 6 – March 27)

Clinical Year Classes Begin  
January 6
Martin Luther King Day  
January 20 (no classes)
President’s Day  
February 17
MLS Research Symposium  
March 5
Last Day of Didactic Classes  
March 12
Spring Break  
March 13 – 22 (break begins after last class on Thursday)
BEGIN Clinical Year Final Exams  
March 23 (March 23 – 27)
Orientation to Clinical Practica  
March 26 (afternoon – attendance required)
END of Clinical Year Spring Semester  
March 27
Travel to Clinicals Week  
March 30 - April 3
Clinical Practica begins  
April 6
END of AU Spring Semester  
April 30

SUMMER MLS CLINICAL YEAR SEMESTER 2020

BEGIN AU Summer Semester begins  
May 11
Memorial Day Holiday  
May 25 (no practicum)
BEGIN MLS Pre-Clinical Summer Courses  
June 8 (2nd Summer Session: June 8 – July 3)
Fourth of July Holiday  
July 3 (no classes/labs/practicum)
MLS Clinical Year  
July 6 (3rd Summer Session: July 6 – July 31)
END Clinical Practica  
July 24
END AU Summer Semester  
July 31
Clinical Year Certificate Ceremony  
August 1
Andrews University Graduation  
August 2

Categorical Students: The length of the categorical clinical practicum is dependent upon individual scheduling. However, it can never be completed before the middle of May. Certification eligibility dictates that the categorical program must be equivalent to one academic year.

Note: This document is provided for your convenience. The clinical program follows the published University schedule. Should the schedule be changed by administration or errors be found in this document, it will be adjusted accordingly.

Document available from http://www.andrews.edu/shp/mls/resources/  
Revised 10/4/2018
# Courses for the Clinical Year (Curriculum Map)

## Fall Semester (AU Campus)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLSC401</td>
<td>Clinical Year Seminar &amp; Research Methodology</td>
<td>1</td>
</tr>
<tr>
<td>MLSC411</td>
<td>Hematology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>MLSC421</td>
<td>Clinical Immunology and Molecular Diagnostics &amp; Lab</td>
<td>2</td>
</tr>
<tr>
<td>MLSC431</td>
<td>Clinical Bacteriology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MLSC441</td>
<td>Immunohematology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>MLSC451</td>
<td>Clinical Chemistry I &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

## Spring Semester – (AU Campus)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLSC400</td>
<td>Specimen Procurement &amp; Processing</td>
<td>1</td>
</tr>
<tr>
<td>MLSC405</td>
<td>Clinical Year Seminar &amp; Research Project</td>
<td>1</td>
</tr>
<tr>
<td>MLSC412</td>
<td>Hemostasis</td>
<td>2</td>
</tr>
<tr>
<td>MLSC432</td>
<td>Specialized Clinical Microbiology &amp; Lab</td>
<td>2</td>
</tr>
<tr>
<td>MLSC442</td>
<td>Transfusion Medicine &amp; Lab</td>
<td>2</td>
</tr>
<tr>
<td>MLSC452</td>
<td>Clinical Chemistry II &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>MLSC461</td>
<td>Body Fluids</td>
<td>1</td>
</tr>
<tr>
<td>MLSC475</td>
<td>Laboratory Operations</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester - Second Session (Clinicals)</strong></td>
<td></td>
</tr>
<tr>
<td>MLSC463</td>
<td>Body Fluids Practicum</td>
<td>1</td>
</tr>
<tr>
<td>MLSC483</td>
<td>Comprehensive Review &amp; Written Examination</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

## Summer Semester (Clinicals)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLSC413</td>
<td>Hematology &amp; Hemostasis Practicum</td>
<td>3</td>
</tr>
<tr>
<td>MLSC423</td>
<td>Clinical Immunology Practicum</td>
<td>1</td>
</tr>
<tr>
<td>MLSC433</td>
<td>Clinical Microbiology Practicum</td>
<td>4</td>
</tr>
<tr>
<td>MLSC443</td>
<td>Clinical Immunohematology Practicum</td>
<td>4</td>
</tr>
<tr>
<td>MLSC453</td>
<td>Clinical Chemistry Practicum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
Below are examples of the typical Fall and Spring Semester Class Schedules. Class schedules for the clinical year may be subject to change. Students will be notified accordingly. A class schedule is provided to students in their orientation packet.
COMMITMENTS/DEADLINES FOR THE CLINICAL YEAR

_____ Application for Financial Aid
Must be completed before or during registration. Remember to include the Summer Semester.

_____ Clinical Year Pictures
Will be arranged through the Program office. All students will be asked to sit for a portrait for inclusion in the class picture to be displayed in the Department. Sitting charges for these photographs are covered by the Department. Additional pictures for personal use may be purchased at the student’s expense.

_____ Senior Exit Test
Must be taken Spring Semester of the Clinical Year. Applications must be filed with the Counseling and Testing Center at the time of Fall Semester registration. Second Baccalaureate degree and guests students from affiliated schools are exempt from this requirement.

_____ Transfer Credits (if applicable)
Must be sent to the Records Office no later than four weeks before graduation. For information, contact the Records Office.

_____ Requirements for Clinical Affiliation Placement
☐ United States Social Security number.
☐ Have independent transportation.
☐ Student Trainee License if required by state where clinical practica is assigned.

The following documents must be submitted to the PreCheck web site no later than January 31.
☐ Statement of Medical Clearance
☐ Documentation of Immunizations/Immune Status Form
☐ Criminal Background check
☐ Drug Screen

Students who do not submit the required documents will not be able to attend class until all the proper documentation is submitted.

_____ Financial Clearance
Financial arrangements for the Spring and Summer Clinical Semesters must be made with the Student Finance Office.

_____ Application for Graduation*
Must be submitted to the Records Office before leaving for clinicals. Application forms are available from the Records Office. Students who fail to complete the graduation application before leaving for clinicals and then request assistance by the Department to rectify this will be charged $50 for this service.

_____ Regalia Order*
Go to the Bookstore website at www.andrews.edu/bookstore to find a link and instructions for ordering graduation regalia on-line. Order by June 1 to allow enough time for delivery.

_____ Graduation Announcements*
Announcements may be purchased through the Bookstore. See the Bookstore website for directions. Order in May or June to ensure on-time delivery.

_____ Housing Arrangements at Clinical Site
Student housing facilities and availability vary from one clinical affiliate to another. The Department Office may assist the student in the initial contact for housing at the clinical site. Further coordination and financial arrangements are the responsibility of the student.

_____ Application for Certification Exams
Applicants must successfully finish the Clinical Year Program to be eligible to sit for certifying examinations.

ASCP: Apply on-line for the Medical Laboratory Science Exam by “Route 1” at the ASCP website located at http://www.ascp.org

NOTE: This information is provided for your convenience. It is intended to aid the student in completing the necessary steps toward graduation. It does not supersede the requirements as listed in the Andrews University Bulletin. It is the responsibility of the student to meet all requirements and obligations as outlined in the Bulletin.
<table>
<thead>
<tr>
<th><strong>FINANCIAL INFORMATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certification Exam</strong></td>
</tr>
<tr>
<td><strong>Criminal Background Check</strong></td>
</tr>
<tr>
<td><strong>Financial Aid</strong></td>
</tr>
<tr>
<td><strong>Graduation Fee</strong></td>
</tr>
<tr>
<td><strong>Health Status Documentation &amp; Drug Screen</strong></td>
</tr>
<tr>
<td><strong>International Transcript Evaluation Fees</strong></td>
</tr>
<tr>
<td><strong>Medical Insurance</strong></td>
</tr>
<tr>
<td><strong>Students Holding a Valid Baccalaureate Degree</strong></td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td><strong>Professional Education Fees</strong></td>
</tr>
</tbody>
</table>
**Course Fees**
Fees may be applicable for some pre-requisite/pre-clinical courses. Course fees are indicated in the bulletin and the amount is listed in the class schedule. Course fees are also charged directly to each student's account upon course enrollment/registration.

**Student Trainee License**
Some states require a student trainee license for participation in clinical practica. A student assigned to a state that requires a trainee license is responsible for the cost of applying and maintaining the trainee license.

**Tuition for Clinical Year**
Tuition is charged at the standard University rate. *See the Andrews University Bulletin for more information.*
## DEPARTMENTAL SERVICES & GUIDELINES

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulletin Boards/Digital Displays</td>
<td>Students wishing to post announcements may submit requests to the department’s office. No announcements may be posted without approval from the Department of Medical Laboratory Sciences Office.</td>
</tr>
<tr>
<td>Certificate Ceremony</td>
<td>The Department of Medical Laboratory Sciences Faculty hosts a Certificate Ceremony on Sabbath afternoon of the Summer Graduation weekend. At this ceremony, students who have successfully completed the Program are awarded a Certificate of Completion from the Andrews University Program for Medical Laboratory Science. The families, out of town guests, and close friends of the graduates are invited to attend. The MLS department sends invitations to those individuals. A light supper is served after the presentation of certificates.</td>
</tr>
<tr>
<td>Departmental Assemblies</td>
<td>Departmental assemblies are regularly scheduled throughout the semester. <strong>Attendance is required for all MLS Majors.</strong> Information concerning date, time, location, and topic content will be posted.</td>
</tr>
<tr>
<td>Departmental Office</td>
<td>Departmental office hours may vary from semester to semester. Please refer to the posted schedule.</td>
</tr>
<tr>
<td>Equipment</td>
<td>Student use of equipment is restricted to the Department of Medical Laboratory Sciences classes and accompanying laboratory assignments. Use of the department’s computers and printers is limited to the computers and printers located in the Student Lounge (HH328). Due to concerns regarding the potential transfer of computer viruses, the faculty and department’s accreditation support specialist will <strong>NOT</strong> correct or print documents from students' computer disks or memory sticks.</td>
</tr>
<tr>
<td>Faculty Office Hours</td>
<td>Students should consult each faculty member’s posted office hours regarding faculty schedules.</td>
</tr>
<tr>
<td>Locker Use</td>
<td>The Department of Medical Laboratory Sciences (MLS) provides lockers for students to have a safe place to store books, coat, and similar personal belongings. The MLS department commits to keeping all lockers secure with a department lock; therefore, we reserve the right to place a lock on any locker that is found open. Additionally, unassigned lockers and lockers that have been surrendered will be secured in like manner. Access to a locker is a privilege and students accept all responsibility associated with their use, as outlined in the Locker Use policy (page 53).</td>
</tr>
<tr>
<td>Mailboxes</td>
<td>Student mailboxes are provided for the return of assignments and for departmental notices. These are located adjacent to Halenz Hall 217. An authorization form to place graded material in the mail boxes will be distributed at the beginning of the year. At no time will examinations/tests be placed in the mailboxes. If a student declines use of the mailbox for return of materials, the faculty will return the materials directly to the student. It is expected that students respect the privacy of other individual’s mailboxes.</td>
</tr>
</tbody>
</table>
**Personal Electronic Equipment**

Cell phones, laptops, electronic pads, and all other personal electronic devices must be turned off during class and laboratory sessions. Text messaging is not permitted during class or labs. If maintaining cell phone contact is imperative, students must obtain prior approval for cell phone use from the respective instructor and the incoming call signal must be set to **vibrate**.

**Social Medial Use**

Social networking is a significant form of public communication, which can be used for collaboration and support amongst students. No matter the social medial or platform used, students are expected to post responsibly and exchange opinions and ideas in compliance with all University and department policies as well as professional codes of conduct.

**Student Laboratories**

Students may use the laboratories during regularly scheduled sessions or by making special arrangements with the faculty. Students and other individuals who are not registered or participating in sessions with scheduled lab time are denied access into the laboratories. Appropriate safety protocol must be followed at all times.

**Student Lounge**

The MLS Student Lounge is located on the third floor of Halenz Hall (HH 328). This space contains a microwave and full size refrigerator for student use. Students are expected to clean after themselves. The refrigerator is cleaned every Friday and items left, with the exception of condiments, will be disposed.
**CLINICAL SITE INFORMATION**

**Assignment to a Clinical Site**
The process for clinical site assignments is generally initiated during late Fall Semester. Students are given a form on which to rank clinical site preferences. While consideration is given to student preferences, assignments also depend on recommendations from the teaching faculty and the education coordinators of the clinical affiliates. Students are not guaranteed their first choice in clinical assignments. The decision of the faculty is final. Typically, students will be informed of their clinical site assignment before the Christmas vacation.

**General Information**
Information about the Clinical Affiliates is available in the department’s office. Students must not contact clinical sites directly. Such contacts are considered annoying and detrimental, thus not in the best interest of the student.

**Housing**
Housing facilities vary from one clinical affiliation to another. Locating housing is the student’s responsibility, however the Department of Medical Laboratory Sciences may provide assistance with the initial contact for housing at the clinical site. Further coordination and financial arrangements are also the responsibility of the student.

**Transportation**
Transportation to/at the assigned clinical site is the responsibility of each student. Although every student is assigned to a primary clinical site, many sites will include rotations at another facility. Thus, students must plan to travel to other locations. The clinical site is not responsible for providing transportation. This is not expected and should not be requested as there are liability concerns the affiliates will not undertake. Advancement to clinicals is contingent on the student able to provide a valid US driver’s license, proof of car registration, and proof of car insurance.

**Requirements by Clinical Affiliates**
In order to become eligible to participate in the practicum portion of the Clinical Year Program, all students must provide:

1. An acceptable criminal background check;
2. Results of an acceptable drug screen test;
3. A statement of medical clearance (physical) signed by a US Board Certified healthcare provider;
4. Documentation of updated immunizations or immune status for required vaccines. Refer to page 15 for a list of immunizations.

These documents must be obtained within specified time intervals. During orientation, on the first day of the Clinical Year, students will be instructed on the timeline for procuring these documents.

In addition to the above general requirements, some clinical affiliates may have additional requirements. In order to attend clinicals, students must provide all the required documentation for the site they are assigned to and are responsible for paying the necessary fees required for obtaining said documentation.
PERFORMANCE EVALUATIONS

During the Clinical Year, the student will be evaluated on a regular basis by the faculty. These evaluations will be informal as well as formal (Mid-Term Student Performance & Progression) and will be based on the following objectives:

Performance Evaluation Objectives: Affective, Psychomotor & Cognitive

WORK HABITS
- Demonstrate regular and punctual attendance for class and labs.
- Demonstrate neatness by making the work area/records presentable.
- Economize in order to conserve reagents and/or time.
- Take initiative, actively seeking unassigned work when time permits.
- Come prepared and perform procedures according to set protocol.
- Comply with safety rules in an exemplary manner.
- Demonstrate professional communication skills; keeps instructors informed.

PERSONAL TRAITS
- Maintain institutional and patient confidentiality as well as absolute integrity.
- Ask for clarification and communicate problems to others in a professional manner.
- Use mature discretion in interpersonal communication.
- Interact in a positive way demonstrating courtesy and tactfulness to others.
- Model punctuality arriving at the section on time.
- Dress in a professional manner, which represents the image of the institution, always complying with the dress code.
- Maintain appearance and personal hygiene.
- Contribute to positive morale and spirit within the class.
- Embrace diversity, global cultures and ideas.

TECHNICAL ABILITY
- Demonstrate organizational ability by handling multiple tasks efficiently.
- Execute tasks quickly, efficiently and with dexterity.
- Maintain clerical accuracy demonstrating good understanding and quality of records.
- Learn new procedures quickly with little repetition.
- Keep ahead of the workload by doing more than expected.
- Exceed expected efficiency and maintain composure under stress.
- Demonstrate good technical reasoning, making correct interpretations.
- Apply theory in problem solving situations.

Note: The Student Performance & Progression Rubrics is available from the MLS Department website.
CERTIFICATION EXAM

Philosophy
The Medical Laboratory Science Program is designed to meet the eligibility requirements for U.S. MLS Certification. This certification is offered through the American Society of Clinical Pathologists (ASCP) Board of Certification (BOC). Upon successful completion of the Program, the student will be eligible to sit for this examination and he/she is expected to become certified as soon as practical.

Application Forms
Eligible applicants must submit an online application for the ASCP examination. For U.S. Certification information and instructions on how to apply, please go to https://www.ascp.org/content/board-of-certification/getcertified#tabs-introduction

Fee(s)
Payment of an application fee is required upon submission of the online application. The cost of the Board of Certification (BOC) examination is determined by the agency (ASCP) and is currently as follows:

- BOC (ASCP) $240.00 (as of 7/2019)

(Application fee is subject to change without notice)
See Policy on “Certification Exam.”

International Certification and State Licensures
Some states require a license to work, which may require successful completion of additional coursework, clinical practicum time, or a state-administered examination. The Program does not guarantee provision of appropriate course work/experience/practica to meet certification or licensure requirements other than those of the American Society for Clinical Pathology. It is the student's responsibility to meet additional requirements if he/she plans to work in one of the states with additional requirements. Failure to meet these additional requirements in advance will jeopardize the feasibility of exploring any possible assistance by the Program to meet additional requirements. See Policy on “Student Preparation for Certification Examination.”

Schedules
The BOC exam is offered as a computer adaptive test (CAT) through the year and at designated examination sites. For scheduling information see https://www.ascp.org/content/board-of-certification/getcertified#tabs-scheduling

Students' Responsibility
Each eligible student is responsible for all aspects pertaining to the BOC exam. Student responsibilities include accessing the application on-line (see link below), paying the exam fee, scheduling the exam, transportation to the testing site, consequences for tardiness or absenteeism, and retakes if he/she fails the exam. To apply online go to: https://www.ascp.org/content/board-of-certification/getcertified#tabs-applying

Please note that applications will be processed within 45 days of receipt. If documentation establishing eligibility is not received within 45 days, the applicant will be deleted from the examination process. Application fees are non-refundable.
Professional Memberships

Students in the Andrews University Medical Laboratory Science Program are encouraged to enroll as student members in one or several professional agencies. The student is entitled to all privileges and benefits designated to the student member. This includes the receipt of professional journals, announcements of local, regional and national meetings, and bulletins. Following is a list of membership agencies and phone numbers:

**AABB**  
American Association for Blood Banks  
8101 Glenbrook Road  
Bethesda, MD 20814  
Telephone: 301-215-6489  
[www.aabb.org](http://www.aabb.org)

**AACC**  
American Association for Clinical Chemistry  
1850 K Street, NW, Suite 625  
Washington, D.C. 20006  
Telephone: 800-892-1400  
[www.aacc.org](http://www.aacc.org)  
[http://www.ascp.org](http://www.ascp.org)

**ASCLS**  
American Society for Clinical Laboratory Science  
6701 Democracy Blvd., Suite 300  
Bethesda, MD 20817  
Telephone: 301-657-2768  
[www.ascls.org](http://www.ascls.org)

**ASCP**  
American Society for Clinical Pathology  
33 W. Monroe  
Suite 1600  
Chicago, IL 60603  
Telephone: 312-541-4999  
[www.ascp.org](http://www.ascp.org)

**ASM**  
American Society for Microbiology  
1752 N. Street N.W.  
Washington, D.C. 20036-2904  
Telephone: 202-737-3600  
[www.asm.org](http://www.asm.org)
## Work Opportunities

### Workload: Andrews Campus

Both Fall and Spring Semesters of the Program are intensive. The student is encouraged to maintain his/her grade-point average by establishing daily study habits. Suggested study time will vary from one student to the next; nevertheless, 2-4 hours/day may be needed. In view of this, each student should use discretion if, and when work schedules are established.

### Workload: Clinical Rotations

*See Policy on “Student Employment at Clinical Affiliates,” page 46.*

### Work Opportunities: Andrews Campus

Students wishing to work while attending Andrews University may consult with personnel at the Office of Student Labor. Job opportunities for students are posted on the web at [https://www.andrews.edu/admres/jobs/show/student](https://www.andrews.edu/admres/jobs/show/student).

### Work Opportunities: Clinical Rotations

After school hours, work opportunities may be available at a clinical affiliate. This is not guaranteed, cannot be expected, or demanded. *See Policy on “Student Employment at Clinical Affiliates,” page 46.*

### Work Opportunities: Clinical Rotations For International Students

International students must follow federal law outlining work eligibility. Typically, employment is limited to on-campus only at the school issuing the I-20. Although clinical students are engaged in learning activities during the clinical practica under the direction of Andrews University, the affiliate site is not an extension of the Andrews campus. Our clinical affiliates are separate institutions and are therefore not considered part of Andrews University itself. Depending upon the type of visa held, working for pay after hours during clinical practica may not be allowed.
MLS Student Handbook
Appendix A

Department & Program Policies
ACADEMIC DISHONESTY AND/OR PLAGIARISM

Area: Academics

Philosophy:
Health care professionals are expected to exemplify ethical deportment and integrity. In conjunction with the student's academic development, Christian character development is an integral part of the Medical Laboratory Science Program's educational experience. Students are expected to demonstrate honesty and personal integrity at all times. This policy is in accordance to the Andrews University (AU) Academic Integrity policy. To access the AU Academic Integrity Policy visit http://www.andrews.edu/services/research/research_compliance/responsibleconductofresearch/academic-integrity-policy.html

Policy:
Failure to maintain academic integrity constitutes academic dishonesty. This policy defines academic dishonesty; ensures due process for students accused or suspected of academic dishonesty on work performed within a course, lab, or at clinicals; and proposes appropriate sanctions for students found to be guilty of academic dishonesty.

Examinations: Cheating on an examination/test is considered to, but is not limited to: using unauthorized aids, copying from another's work on in-class examinations and quizzes, discussing exams or examination questions with students who have not yet taken/written the exam (the student who discusses examinations with a student who has not taken the exam will be treated the same as the one who was helped), or unauthorized collaborating on take-home or clinical exams. If a violation of ethical conduct occurs, one or more of the following will be imposed:

1. A score of zero on the examination or quiz will be given.
2. A failing grade (F) for the course.
3. Probationary status in the Clinical Year Program.
4. Dismissal from the Program.
5. A report will be made to the appropriate University officials for inclusion in the student's citizenship records.

Laboratory Reports: Dry labbing refers to copying another's laboratory reports, falsifying data, or producing fictional (yet plausible) data or lab results without performing the assignment, experiment, or lab procedure. One or more of the following will be imposed for dry labbing:

1. All culpable individuals will receive a score of zero for the report.
2. All culpable individuals may receive a score of zero for the entire laboratory grade.
3. Probationary status in the Clinical Year Program.
4. Dismissal from the Program.
5. A report will be made to the appropriate University officials for inclusion in the student's citizenship records.
Plagiarism: Plagiarism consists of presenting another's work as one's own. One or more of the following will be imposed for plagiarism:

1. The material must be re-written to receive credit.
2. Probationary status in the Clinical Year Program.
3. Dismissal from the Program.
4. A report will be made to the appropriate University officials for inclusion in the student's citizenship records.

Self-plagiarism consists of presenting one's work, previously published or submitted for class, as though it were new. One or more of the following will be imposed for self-plagiarism:

1. A report will be made to the appropriate University officials for inclusion in the student's citizenship records.
2. The material must be re-written to receive credit.
3. Probationary status in the Clinical Year Program.
4. Dismissal from the Program.
Area: Minimum Grade Point Average (GPA)

Philosophy:
The cumulative grade-point average may be used as an indicator of a student's ability to successfully complete the Medical Laboratory Science (MLS) clinical year as well as an indicator of the amount of individualized attention that will need to be given the student.

Policy:
Admission to senior-year clinical studies requires an overall grade-point average of 2.50 or greater in the cognate sciences, mathematics, and MLS content courses. In the admissions process, the grade-point average for the cognate sciences, mathematics, and MLS content courses are computed together. This combined grade-point average must be a minimum of 2.50. Preference is given to students with higher GPAs. An interview may also be necessary to ascertain an applicant's eligibility.

An individual with a grade-point average of less than 2.50 but greater than 2.25 may be admitted to the Program if there are extenuating circumstances and it is the professional judgment of the Program for Medical Laboratory Science Admission Committee that the student exhibits reasonable prospects for successful completion of the program. No more than 10% of the admitted class will be comprised of these special-case admissions.

The grade of a cognate science, mathematics, or MLS content course must be equal to or greater than a C- (minus) to count towards a degree or certificate program.
Area: Admissions Process

Philosophy:
The philosophy and goals of the Medical Laboratory Science (MLS) Admissions Committee are as follows:

1. A realistic expectation on the part of the student for successful completion of the MLS courses and the passing of certification examination(s).
2. A minimum grade-point average (GPA) of 2.50 is desirable for students entering the MLS Clinical Year.
3. No preferential treatment will be shown to any students based on religion.

Policy:
An independent admissions process is required for students who wish to enter the MLS Clinical Year. Application forms are available from the MLS Department and MLS Department website. These applications should be completed by the student and returned to the departmental office by January 31 prior to their anticipated clinical-study year.

Admission to senior-year clinical studies requires an overall GPA of 2.50. In the admissions process, the GPAs for the cognate sciences, mathematics, and medical laboratory science content courses are computed together. This combined GPA must be a minimum of 2.50. Preference is given to students with the higher GPAs. The grade of a cognate science, mathematics, or MLS content course must be equal to or greater than a C- (minus) to count towards a degree or certificate program.

The clinical year of Medical Laboratory Science Program is comprised of two semesters of lectures and student laboratories on the Berrien Springs campus and sixteen weeks of clinical practicum at an affiliated clinical site. Students may enter clinical practicum only upon satisfactory completion of the semesters taught at Andrews University. Satisfactory completion is defined as a clinical year cumulative GPA of 2.50 and the recommendation of the faculty. A student receiving a cumulative GPA of less than 2.50 may be allowed to advance if the Department of Medical Laboratory Sciences faculty perceives exceptional circumstances and makes a recommendation to allow the student to continue in the program. A student enrolled in the clinical practicum may only continue those studies conditional upon acceptable ethical deportment and exemplary practices in patient care. The clinical site instructor or clinical education coordinator and the MLS faculty are final arbiters in determination of student continuance.
ATTENDANCE DURING MLS CLINICAL PRACTICUM

Area: Attendance

Philosophy:
The primary purpose of the Medical Laboratory Science (MLS) Practicum is to provide the student with an educational experience in the professional environment. To maximize this experience, it is necessary for the student to be at the appointed place at the appointed time. The student must complete both the required material content and contact time before graduation and the writing of certification exams.

Policy:

1. A student not at his/her assigned place at the designated time will be considered tardy.
2. A student more than one hour tardy may be considered absent.
3. In the event of an emergency or illness, the student is expected to contact the education coordinator and/or the section supervisor before the scheduled starting time to report the reason for the tardiness/absence and the expected time of return. In addition, the student must inform the Andrews University course instructor within 24 hours of the occurrence.
4. The student is required to keep a daily log of his/her attendance documenting the name of the person contacted when tardy or absent.
5. The student may have one day’s absence during a rotation. A maximum of five (5) such absences is allowed during the one and a half semesters of clinical experience. The following guidelines apply:
   a. The student is responsible for all material content missed during the absence.
   b. If the absence is for two or more consecutive rotation/school days, the student is responsible for all the missed material content and must make up the missed contact time for all days after the first day.
6. Absences for personal matters must be approved beforehand by the education coordinator or designee and the section supervisor.
7. Three (3) tardiness will be counted as one (1) absence.
8. If the student leaves his/her assigned place before the normal quitting time without permission, the student will be considered absent for that day.
9. In the event of an illness or emergency resulting in an extended absence, the Andrews University faculty and the clinical education coordinator will work with the student to arrange make up of missed material and contact time if at all possible.
10. Excessive tardiness and/or absences will jeopardize the student’s educational experience and may lead to his/her dismissal from the Program.
CLINICAL YEAR SEMINAR

Area: Medical Laboratory Science

Philosophy:
The Medical Laboratory Science (MLS) profession has always been faced with an explosion of new technologic advances and dynamic changes in the work place. Being a professional clinician is not limited to inward cognitive knowledge, but involves additional skills in the area of teamwork, communication, and education. To equip and enable each student to face these challenges, the Andrews University Program for Medical Laboratory Science includes a Seminar to foster professional growth.

Policy:
As part of the Clinical Year curriculum, students register for two (2) seminar courses MLSC 401 Clinical Year Seminar and Research Methodology and MLSC 405 Clinical Year Seminar and Research Project. Students must achieve a minimum grade equal to or greater than a C- (minus) to be eligible to progress in the Program.
CRITERIA FOR ACCEPTING NON-ANDREWS UNIVERSITY FUNDAMENTAL/PRE-CLINICAL COURSES

Area: Credit Transfers

Philosophy:
Several Andrews University MLSC fundamental/pre-clinical or equivalent courses are required before entry into the Andrews University Program for Medical Laboratory Sciences (MLS). Students who wish to enter the AU MLS Clinical Year Program may have taken courses at other schools and/or may hold some form of certification in the clinical laboratory field and may wish to have one or more of these course substituted for the Andrews University MLSC fundamental/pre-clinical courses. This policy ensures these individuals are prepared for the MLS Program and have the best chance for success.

Policy:
Students who wish admittance to the Medical Laboratory Sciences Clinical Year Program at Andrews University Program must have successfully completed the MLSC fundamental/pre-clinical courses or courses deemed equivalent. For non-Andrews University courses to be deemed equivalent to the Andrews University MLSC fundamental/pre-clinical course(s) the following criteria apply:

- The course must have been completed within the past two years.
- The student must have achieved a grade of at least B- (B minus), on a four-point scale, in any non-Andrews University course which the student wishes to be deemed equivalent.
- To aid in determining the equivalence of the proposed course, the student must provide a course syllabus containing a detailed course description, list of topics covered in the course, and course schedule.
- If the course grade is less than B- (B minus), the student must take a competency exam in the subject area or attend the corresponding Andrews University course.
- If the course in not deemed equivalent, the student must choose one of the following:
  1. Take the Andrews University course for credit; Regular tuition and course/lab fees apply.
  2. Take the competency exam in the subject area; An administration fee applies.
  3. Attend the corresponding Andrews University course(s). No credit is generated; course and/or laboratory fees apply.

- If the student chooses to take the competency exam, he/she must achieve a score of at least 85.0%. A score of less than 85.0% will require the student to attend the corresponding Andrews University course.
- If the student choses or is required to attend the corresponding Andrews University course/s, the student must achieve a grade no less than C- (C minus) and a minimum GPA of 2.50.
Term Definitions:

• **MLSC:** The Andrews University course identifier for MLS Program courses.

• **Competency Exam:** An exam developed by the instructor of the relevant Andrews University course.

• **Attend:** The student will attend (sit in) the Andrews University course as a guest. He/she MAY be required to take exams, quizzes, assignments, and do all laboratory exercises. If the student chooses, or is required to attend the Andrews University course, there will not be the regular tuition charge, but the student will be responsible for the course and/or laboratory fees. The regular Andrews University attendance policies apply, see the Andrews University bulletin.
COMPETENCY EXAMINATIONS

Area: Medical Laboratory Science

Philosophy:
The curriculum, encompassing both didactic and clinical components of the Medical Laboratory Science (MLS) Program, is designed to prepare students to meet certification requirements for the American Society for Clinical Pathologists (ASCP). Upon successful completion of the entire Program as outlined in the Andrews University Bulletin, students will be eligible to sit for this examination.

A student, who seeks to have work experience or other professional training considered in lieu of course work within the curriculum as outlined in the Program, must adequately demonstrate knowledge and proficiency equivalent to or greater than that which would be achieved through the required educational experiences of the program. Therefore, a competency examination is required before any exception can be made from the established program.

Policy:
Requests for exceptions to the established program must follow the steps outlined below:

1. 
   a. Validate the request to write the competency examination by providing ample documentation. (i.e. a letter from the laboratory manager and/or section supervisor describing the scope of responsibilities and experience of the individual, the syllabus from the course in question, recognized certification, etc.).

   b. Successfully pass a competency examination provided by the instructor of the course being challenged. Successful passing of a competency examination is defined as achieving a grade no less than B- (B minus).

2. If academic credit is desired or necessary, all requirements of the Credit by Examination section of the Andrews University Bulletin apply.

3. Competency examinations or work-experience waivers for clinical practica are not permitted. Completion of the MLS Clinical Year is contingent on participation in the clinical practicum component.
CREDIT BY EXAMINATION

Area: Academics

Philosophy:
To provide a mechanism for students with verifiable phlebotomy experience to fulfill the Bachelor of Science in Medical Laboratory Science degree requirement MLSC400 Specimen Processing and Procurement (2 credits) without registering for the course.

Policy:
Recognizing that all students, regardless of previous experience in phlebotomy, will be required to satisfactorily demonstrate proficiency in the clinical facility to which they are assigned, a validation of experience and knowledge is established. Validation of acquired knowledge of the theoretical principles, protocol, and ethical issues involved in the practice of phlebotomy, may be obtain as follows:

1. An individual with documentation of certification as a phlebotomist by a departmentally-approved registry agency will be granted a "Pass" for the course.

2. An individual with documented phlebotomy experience* who does not hold certification shall be required to take the MLSC400 Specimen Processing and Procurement final examination. A score of 80% or greater represents a "Pass" for the course.

3. Individuals without certification who have documented phlebotomy experience* and do not achieve a score of 80% or greater on the MLSC400 Specimen Processing and Procurement final examination will be required to satisfactorily complete the didactic portion of the course. A grade will be assigned according to course protocol.

*Documentation of experience shall be defined as verification of employment and extent of experience, such as job description provided by the employer, which meets departmental approval.
**HEALTH AND IMMUNIZATION REQUIREMENTS**

**Area:** Documentation

**Philosophy:**
To ensure the health and wellbeing of students for interaction with colleagues, staff, and patients.

**Policy:**

<table>
<thead>
<tr>
<th>Area</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Examination</td>
<td>Students must present documentation of a physical examination prior to entering clinical practica.</td>
</tr>
<tr>
<td>Hepatitis B Immunization</td>
<td>Students must have received a minimum of two (2) of the three injections prior to entering clinicals or sign a waiver form. If students are unable to provide documentation of a claimed completion of the Hepatitis B series, documentation of a titer indicating immunity must be provided.</td>
</tr>
<tr>
<td>Immunization/Drug Testing/Physical and Mental Requirements</td>
<td>Additional health-related requirements or testing are required by some clinical affiliates and state laws. Students will be informed of, and MUST meet, the specific requirements of the clinical affiliate or state where they are assigned for clinicals.</td>
</tr>
<tr>
<td>Infectious Conditions</td>
<td>Faculty have the right to mandate receipt of a physician’s written evaluation that the student is not a health risk to patients/co-workers before permission will be granted for the student to enter the clinical practica.</td>
</tr>
<tr>
<td>Sickness/Absence</td>
<td>Five (5) days during the entire clinical practica. Only one day can be missed during a particular rotation without making up the time missed.</td>
</tr>
<tr>
<td>Health Status Related Expenses</td>
<td>Students are financially responsible for all expenses related to achieving and documenting all the health and immunization requirements as determined by the Program, clinical affiliate, or state.</td>
</tr>
</tbody>
</table>
**SCHOLARSHIP AWARDS**

**Area:** Scholarships

**Philosophy:**
Scholarship monies funded through special contributions to and designated for Medical Laboratory Science (MLS) students will be awarded by the faculty of the Department of Medical Laboratory Sciences. All declared majors regardless of race, creed, religion, or personal background will be eligible.

**Policy:**
Assigning departmentally-awarded scholarships will be based upon the following criteria:

1. Evidence of exemplary character and citizenship.
2. Good scholarship, equal to or exceeding that which is required for entrance into the MLS Clinical Year Program.
3. Commitment to the Medical Laboratory Science profession.
STUDENT CODE OF PROFESSIONAL CONDUCT

Area: Clinical Year Program

Philosophy:
As a professional in the health care environment, high standards of conduct are expected by colleagues and patients. While in the educational stages of the professional career, the student is expected to demonstrate professional conduct in school and clinical settings.

Policy:
Upon being accepted into the Program for Medical Laboratory Science, the student will receive a copy of the attached agreement. After thorough study and understanding, the student is to sign, date and return the agreement to the Program Director.

The student may be dismissed from the program for any of the following:

1. Refusal to sign the agreement.
2. Failure to abide by the agreement.
Agreement of Understanding and Commitment
to Uphold the Code for Professional Conduct
of the Andrews University Program for Medical Laboratory Science

The professional conduct required for all Medical Laboratory Science students in the year of clinical studies is an important aspect of the student's development.

These requirements include the following:

1. Confidential patient information shall not be disclosed to unauthorized persons.
2. Strict integrity shall be maintained in all matters of personal and professional relationships.
3. Safety procedures shall be maintained at all times.
4. An incident report shall be filed and the course/cclinical instructor notified whenever there is an accident involving any potentially contaminated item(s).
5. Chemical substances shall not be misused.
6. Courtesy shall be practiced in dealings with all.
7. Attendance at all program appointments shall be met with punctuality.
8. Equipment shall not be misused.
9. Compliance with both the Andrews University and clinical site code of deportment and dress, which include the following:
   a. Impeccable personal grooming.
   b. Shoes and socks or stockings are required to be worn at all school and hospital appointments. Shoes must be made of an impermeable material and closed-toe.
   c. No dangling jewelry.
   d. Long hair must be tied back.
   e. Jeans, shorts, and T-shirts are not appropriate professional attire.
   f. A full or three-quarter length laboratory coat is required in all student and hospital laboratories.

I have been fully advised concerning the professional conduct expected and I understand that deviation from these requirements may result in counseling, grading penalties, and/or other disciplinary measures including expulsion from the program.

_____________________________  __________________________
Student’s Name (PRINT)          AU ID

_____________________________
Student’s Signature

Date
STUDENT DRESS

Area: Medical Laboratory Science

Philosophy: The Andrews University Program for Medical Laboratory Sciences prepares students for a professional environment in the clinical setting. In addition to portraying a professional attitude, student dress must also be professional and meet the safety requirements in the work place.

Policy: Student attire for lectures, labs, and general school activities is expected to follow the standards of modesty, simplicity, and appropriateness, as outlined in the Andrews University Bulletin. Examples of inappropriate attire for women include, but are not limited to sheer blouses, tube tops, low necklines, bare midriffs, spaghetti straps or no straps, tank tops, shorts, or short skirts. Extreme use of cosmetics is not acceptable. Examples of inappropriate attire for men include, but are not limited to tank tops, bare midriffs, or unbuttoned shirts. Modest shorts, while acceptable for certain settings on-campus activities are not acceptable attire in MLS laboratories.

Laboratory Sessions On Campus:

Students will observe and practice all safety precautions during laboratory sessions. In addition to the attire listed above, open-toe shoes are not be allowed during laboratory sessions. All MLS labs require students to wear a full or three-quarter length laboratory coat.

Senior/Clinical Year Practica:

Each clinical site affiliate has a dress code. Students are expected to follow the standards set forth by the institution to which they have been assigned. Although blue jeans are considered acceptable attire on campus, they may not be acceptable during the clinical practica portion of the Clinical Program.

Students who choose to disregard safety and dress codes will be asked to leave the class or laboratory session. Dress and safety violations will be documented, placed in the student’s file, and may jeopardize continuance in the MLS Program.
STUDENT EMPLOYMENT AT CLINICAL AFFILIATES

Area: Student Employment during Clinical Practica

Philosophy:

Students may seek employment at an affiliated clinical institution as long as it does not interfere with their studies. The following policy is intended to assist the student in determining when and how much work is acceptable.

Policy:

The following criteria apply to student employment during clinical practica:

1. The student shall have completed the clinical education for the activities in which the student will be asked to perform or be judged acceptably proficient by the supervisor of the laboratory area in which the work will be performed.

2. The student shall have maintained a clinical education GPA of 2.50 or greater and shall not be on academic probation at the time of employment. All tests, quizzes, reports, and homework shall be up to date.

3. The student shall have completed all clinical hours expected and prescribed as a part of the clinical education assignments up to the time of employment.

4. The student shall have completed all class work other than clinical assignments, which are required to be completed prior to the end of the Clinical Year.

5. It is not obligatory for a clinical institution to provide employment for any student nor is it required that any student shall agree to work, either part time or full time, during the term of clinical education or subsequently. Employment arrangements may be entered into by the students and a clinical facility when it is perceived by both parties to be advantageous to do so. The affiliated clinical institution may place the student(s) on its part time payroll and may grant to each the reimbursement and benefits in accordance with that institutions policy governing part-time employees. It is the responsibility of the affiliated hospital's supervising personnel to monitor the student-employee's work performance and enforce compliance with usual hospital practices and standards.

6. The liability insurance of the clinical facility shall apply as primary for student coverage during the hours he/she is employed by the hospital and to the exclusion of University insurance coverage of his/her employed activities.

7. Students shall not be employed for service work during scheduled clinical education hours.

8. Students may be employed during hours which are not scheduled times for clinical education but the times of employment shall not include the hours between 11:00 p.m. and 5:00 a.m. Sunday through Thursday.

9. If the student receives from the clinical institution (hospital) a scholarship or other financial aid with attendant expectations that the student will work at the hospital following graduation, those
arrangements should be clearly understood by both parties to the agreement and each shall have a written copy of the same including authorized signatures.

10. Students shall be assigned phlebotomy duties as a part of their clinical rotations. The time of these assignments shall vary with the particular hospital to which the student is assigned and is considered school time for which pay will not be expected or received. The phlebotomy assignments will be terminated when the student has attained proficiency as defined in the learning objectives.

11. Other periods of assigned clinical experiences outside regular weekly day shifts shall be for the purpose of experiencing laboratory operations as they are unique to a different time of the day. In any event, these assignments shall be limited to not more than ten percent (10%) of the time assigned for any one laboratory rotation (i.e. immunohematology, hematology, etc.). The times assigned may be for early morning phlebotomy and evening shift experience. Students shall not be assigned for non-employed clinical experience between the hours of 11:00 p.m. and 5:00 a.m. on any day of the week as a part of their student rotations.

12. International students must follow federal law outlining work eligibility. Typically, employment is limited to on-campus only at the school issuing the I-20. Although clinical students are engaged in learning activities during the clinical practica under the direction of Andrews University, the affiliated site is not an extension of the Andrews campus. Our clinical affiliates are separate institutions and are therefore not considered part of Andrews University itself. Depending upon the type of visa held, working for pay after hours during clinical practica may not be allowed.
STUDENT PREPARATION FOR CERTIFICATION EXAMINATION

**Area:** Medical Laboratory Sciences

**Philosophy:**

The Medical Laboratory Science program is designed to meet the certification requirements for the American Society for Clinical Pathology (ASCP) Board of Certification (BOC). Upon successful completion of the Program, students will be eligible to sit for this examination.

**Policy:**

The Medical Laboratory Science Program does not guarantee accommodations to any or all additional requirements imposed beyond those of the ASCP.

**ASCP certification examination:** To facilitate preparation for the Board of Certification exam by the ASCP, students are required to participate in a comprehensive review course (MLSC 483 Comprehensive Review and Examination) during their clinical year. Upon successful completion of the Program, the student will be eligible to sit for this certification examination.

**State licensure:** It is the responsibility of the student to contact the state in which they intend to seek employment to determine the eligibility requirements for taking the state licensing examination.

**Non-USA certification requirements:** It is the responsibility of the student to contact the certification agency of the country in which they will be working to determine the eligibility requirements for becoming certified in that country.
STUDENT GRIEVANCE PROCEDURE

**Area:** Student Grievance

**Philosophy:**
Whenever individuals have close associations, there is the possibility of misunderstandings and disagreements. In the event of such a situation, the student is expected to conduct himself/herself in a professional manner. The following policy is to assist the student in this process.

**Policy:**

**On-campus Students:**
Should a student have a grievance against the Department of Medical Laboratory Sciences or the Program for Medical Laboratory Science, its policies, actions, faculty or staff, the following are the steps that should be taken by the student:

1. The grievance should be discussed factually with the Instructor. This individual will treat any grievance with dignity and respect and will give a specific answer within three working days of the time the problem is brought to his/her attention.

2. If for any reason the answer does not satisfy the student, the grievance is to be submitted in writing to the Department Chair or Program Director. The nature of the grievance may necessitate the Department Chair or Program Director to consult one or more faculty members. The Department Chair has the authority to settle problems relating to the department and the Program Director has the authority to settle problems relating to the program. An answer will be provided to the student within three working days. In the case the Department Chair or Program Director is also the Instructor, the student is to select another departmental faculty member to act in place of the Department Chair or Program Director in settling the issue.

3. If for any reason this answer does not satisfy the student, the grievance should be taken to the Dean of the School of Health Professions who will give an answer within three working days.

4. If for any reason the student has not received satisfaction from the Instructor, the Department Chair, Program Director, or the Dean of the School of Health Professions, the student may request the grievance be considered and arbitrated by a grievance panel consisting of the following:

   a. A Medical Laboratory Science faculty person appointed by the Department Chair or Program Director.
   b. The Dean of the School of Health Professions.
   c. A faculty, staff, or administrative member chosen by the first two members (a. and b.) in consultation with the student.
If the student needs help in preparing the presentation, he/she may enlist the help of a fellow student, a Medical Laboratory Science faculty person, or the ombudsman. This individual will have the responsibility of helping the student effectively present the position as the student sees it. Specifically, these responsibilities include:

1. Assisting in the preparation of the presentation
2. Arranging to present the problem to the supervisor, director, or the panel
3. Assisting in the verbal presentation of the problem

The panel will hear the complaint within five working days of the request and will give a written statement of the decision within five working days of hearing the complaint. It is understood that the decision of the grievance panel is final and the student must abide by its decisions. The student’s educational program will not be jeopardized as a result of initiating the grievance procedure.

**Off-campus Students:**
Should a student have a grievance against the laboratory or hospital, the clinical program or policies or actions, the following action should be taken by the student (in the following order):

1. The grievance should be discussed factually with the clinical instructor. This individual will treat any grievance with dignity and respect and will give a specific answer within three working days of the time the problem is brought to his/her attention.

2. If for any reason the answer does not satisfy the student, the grievance should be taken to the facility’s Education Coordinator who, in consultation with the Administrative Director of the laboratory, has the authority to settle problems relating to the clinical rotation program and will give an answer within three working days.

3. If for any reason the answer does not satisfy the student, the grievance should be taken to the Andrews University Program Director. This person has the authority to settle problems relating to the Program and will give an answer within three working days.

4. If for any reason this answer does not satisfy the student, the grievance should be taken to the Dean of the School of Health Professions who will give an answer within three working days.

5. If for any reason the student has not received satisfaction from either the clinical instructor, facility’s education coordinator, the Program Director, or the Dean of the School of Health Professions, the student may request the grievance be considered and arbitrated by a panel consisting of the following:
   a. A Medical Laboratory Science faculty person appointed by the Program Director
   b. The Dean of the School of Health Professions
   c. A faculty, staff, or administrative member chosen by the first two members (a. and b.) in consultation with the student
   d. The education coordinator from the corresponding clinical affiliate

If the student needs help in preparing the presentation, he/she may enlist the help of a fellow student, a Medical Laboratory Science faculty person, or the ombudsman. This individual will have the responsibility of helping the student effectively present the position as the student sees it. Specifically, these responsibilities include:

1. Assisting in the preparation of the presentation
2. Arranging to present the problem to the supervisor or director, or the panel
3. Assisting in the verbal presentation of the problem
The panel will hear the complaint within five working days of the request and will give a written statement of the decision within five working days of hearing the complaint. It is understood that the decision of the grievance panel is final and the student must abide by its decisions. A student's educational program will not be jeopardized as a result of initiating the grievance procedure.
**LOCKER USE**

**Area:** Safety

**Philosophy:**
The Department of Medical Laboratory Sciences (MLS) provides lockers for students to have a safe place to store books, coat, and similar personal belongings.

**Policy:**
The MLS department commits to keeping all lockers secure with a department lock; therefore, we reserve the right to place a lock on any locker that is found open. Additionally, unassigned lockers and lockers that have been surrendered will be secured in like manner.

Access to a locker is a privilege and students accept all responsibility associated with their use, as outlined below.

1. All lockers are the property of Andrews University and are managed by the MLS department.
2. Use of a locker by a person other than to whom it is assigned is forbidden. Misuse of a locker may lead to termination of locker privileges.
3. The MLS department faculty and staff reserve the right to open a locker without seeking the consent of the student to whom the locker is assigned in instances where there is suspicion that locker procedures are being abused or in an emergency situation.
4. Flammable materials, dangerous chemicals, explosives, or weapons of any kind are strictly prohibited inside the lockers.
5. Items such as food, illegal/controlled substances such as drugs or alcohol are also strictly prohibited inside the lockers.
6. All students are to use locks issued by the MLS department office only. The use of personal locks is prohibited. The lock is to be returned to the MLS department office (HH218) at the completion of the spring semester. If the department-issued lock is not returned within seven (7) business days from the last day of the semester, the replacement cost will be charged to the student account.
7. Upon assignment and during use, students are responsible for reporting any damage or needed repairs to the Department office. Students will assume the cost of any unreported damages.
8. All personal items must be stored completely within a locker. No items are to be left outside of a locker.
9. At the end of the agreed term for locker use, the student is responsible for leaving the locker in clean condition and good repair. No items should be left in the locker and the Department reserves the right to dispose of any such items.
10. Neither the MLS Department nor Andrews University can be held responsible for lost, stolen, or damaged personal property associated with locker use.
TRANSCRIPT EVALUATION OF ALL NON-USA DEGREES

**Area:** Medical Laboratory Sciences

**Philosophy:**

The Medical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and as such must meet the requirements of this agency. NAACLS requires that all degrees obtained outside of the United States be evaluated by an authorized transcript service.

**Policy:**

All students holding a non-USA baccalaureate degree or equivalent, or higher degree, and wanting to enter the clinical studies and sit for the American Society for Clinical Pathology (ASCP) Board of Certification (BOC) must have their transcripts evaluated by an authorized transcript service. Only evaluation agencies approved by both Andrews University and the ASCP will be accepted.
PERSONAL PROTECTIVE EQUIPMENT

**Area:** Safety

**Philosophy:**
The risks present when working in a laboratory setting can be greatly reduced or eliminated when proper precautions and practices are observed. The use of Personal Protective Equipment (PPE) is necessary to manage, prevent and minimize, to the fullest extent practical, risks to the health, safety, and well-being of students and instructors participating in student laboratory activities.

**Policy:**
All instructors and students must wear the proper PPE in the labs. In addition to appropriate clothing, required PPE includes a lab coat, goggles (if required), and gloves. Should a student come unprepared to lab (without proper clothing or the required PPE), he/she will be asked to leave and change and/or retrieve their PPE. All laboratory personnel and students must remove all PPE before leaving the lab. Wearing PPE is not permitted in hallways and restrooms.

**Laboratory Clothing**
Clothing worn in the laboratory should not be loose fitting, and should cover and protect as much skin as possible. The clothes should be made of materials that are resistant to chemicals, such as cotton or other natural fibers. Jeans and long-sleeved t-shirts are good examples of appropriate laboratory attire. Long or loose hair must be tied back. Remove jewelry (including necklaces, rings, bracelets and watches) to prevent chemicals from seeping underneath them. Shoes must have closed toes and have soles of a good gripping material. Clogs, perforated shoes, sandals, flip-flops, and cloth shoes (i.e. suede, canvas, etc.) do not provide protection against spilled chemicals and are not to be worn in the lab.

**Laboratory Coats**
Knee-length laboratory coats with long sleeves are required when working in the laboratory. Lab coats must be worn closed (e.g., buttoned, snapped) to protect clothing. Head covering such as scarves or hijabs should be tucked inside the lab coat so they will not come in contact with contaminated material. Laboratory coats must be worn only in the labs. Lab coats are not to be worn during breaks or in any public areas (e.g., halls, restroom, classroom, cafeteria, or dormitory).

The cost of the laboratory coat is the student’s responsibility. All students enrolled in fundamental courses are required to purchase a one-semester-use lab coat from the Andrews University Bookstore. Students are required to replace their lab coats when they have become compromised and no longer provide adequate protection. A lab coat is provided for students enrolled in the Clinical Year Program. Lab coats that have not been approved are strictly prohibited with no exceptions.

Laboratory coats are to be removed immediately before leaving the laboratory area and either hung in the appropriate place or placed in a zip lock plastic bag for storage.

The MLS Department provides lab coats for instructors, graduate/research assistants, and lab workers use only. These lab coats are not to be loaned to students who have forgotten their lab coat. Failure to bring a lab coat constitutes unpreparedness. The student will not be allowed to participate in the lab without their lab coat.
**Gloves**  Students are required to wear disposable, single-use gloves when they have the potential for direct skin contact with blood and other potentially infectious materials; also when student has non-intact skin (i.e. cuts and/or abrasions) when touching or handling contaminated items or surfaces.

Gloves are removed inside out aseptically and are replaced as soon as possible when visibly soiled, torn, punctured, or any time their ability to function as a barrier is compromised. They are not washed in disinfectant for reuse. The MLS Department offers hypoallergenic gloves for student use.

**Aprons**  Aprons are worn in addition to the laboratory coat when the laboratory coat cannot provide adequate protection (e.g., during pregnancy) or when fluid contamination is likely (e.g., apheresis). Aprons are not substitutes for laboratory coats but serve as additional protection.

**Eye Protection**  Eye protection may be required while in the laboratory. Avoid use of contact lenses in the laboratory. If they are used, inform the instructor so that special precautions may be taken (i.e. goggles may need to be worn). Eyewear and/or portable deck top plastic shields, if necessary, will be provided to prevent splashes, sprays, spatter, or droplets of blood or infectious materials if there is a potential for eye, nose, or mouth contamination. Protective eyewear, such as goggles, may also be purchased by the student. Eyewear should be appropriately cleaned before using and whenever splashes or contamination are visible. When not in use, protective eyewear should be decontaminated and put in an individual case in contamination free storage.