



MEDICAL LABORATORY SCIENCES

Student Handbook

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Mission

The mission of the Florida Southern College/Lakeland Regional Health Medical Laboratory Science degree program is to empower students to attain the necessary theoretical knowledge, practical, critical thinking, research, and communication skills to successfully practice in the dynamic field of medical laboratory science. We believe that by promoting wellness, education and discovery, our graduates will have a positive impact on society and help to deliver the best outcomes and safest care to the surrounding community.

Goals

The goals of the Medical Laboratory Science program are to help students develop the ability to:

- 1. Acquire the necessary educational knowledge to be part of a high-performance laboratory team that provides timely and accurate laboratory results for the purpose of diagnosing and treating disease and maintaining health
- Demonstrate competent practical laboratory skills of the quality workflow in preanalytical, analytical and post-analytical process
- 3. Apply critical thinking skills
- 4. Develop effective communication skills
- 5. Instill the importance of quality assurance and quality improvement in all aspects of laboratory performance
- 6. Develop, build, and sustain a courteous and professional working environment for students, patients, and all members of the healthcare team
- 7. Grow the profession of medical laboratory science through the provision of highly skilled and dedicated professionals
- 8. Become lifelong learners as they seek to maintain professional competence and continuing education for career growth
- 9. Teach, demonstrate, and promote ethical behavior and to provide the building blocks for future leadership endeavors

Philosophy

The Medical Laboratory Science degree program provides the student with didactic and field experiences required for working in a clinical laboratory within a hospital, public health, research laboratory, private or industrial setting. Within the curriculum, the program provides exposure to the necessary experiences which lead to the development of competent practicing Medical Laboratory Scientists. Graduates will utilize critical thinking skills as well as educational and technical understanding to identify problems, research knowledge relating to the problems, evaluate clinical MLS Student Handbook

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situations related to the problems, and make decisions concerning solutions. The program will also provide opportunities to develop supervisory and management skills, and will enable students to pursue graduate studies. The broad technical and professional experiences will enable future employers to develop the student's fullest potential as a working member of the laboratory and healthcare team.

Program Overview

The MLS degree is an allied health career opportunity for students interested in working in a clinical laboratory.

Medical laboratory scientists work behind-the-scenes, processing laboratory tests that doctors count on to correctly diagnose, monitor and treat patients, and practice preventative medicine. Medical laboratory scientists primarily work in hospitals, clinics, private laboratories, public health organizations, research laboratories, and research and development departments of pharmaceutical companies.

Medical Laboratory Scientists assist doctors and other healthcare staff, including nurses, in choosing the correct lab tests and ensure proper collection methods. Medical Laboratory Scientists then receive the patient specimens, analyze the specimens, interpret and report results. A Pathologist may confirm a diagnostic result, but often the Medical Laboratory Scientist is responsible for interpreting and communicating critical patient results to the physician.

Job tasks for medical laboratory scientists include identification of infectious agents such as bacteria, viruses, fungi, and parasites; analysis of blood to detect disorders such as leukemia, hemophilia and immunodeficiency; measuring the presence of antibodies in blood to indicate infection with agents such as Human Immunodeficiency Virus (HIV); analysis of molecular tests such as Polymerase Chain Reaction (PCR) for the detection of emerging diseases; and assuring the quality of blood for transfusions. In addition, laboratory scientists assure the quality of test data, compare and select appropriate laboratory methods and instruments, provide physicians with information on the validity and significance of test results, and supervise other laboratory personnel.

This four year degree includes experience working in the clinical laboratories of Lakeland Regional Health. Students will begin taking courses at the Medical Center hospital beginning in their third year, before transitioning into a full time internship at Lakeland Regional Health during their fourth year.

Students are required to maintain an overall Florida Southern College GPA of 3.0, and have a final grade of C or better in all major and prerequisite courses. Students who

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are unable to maintain the required academic standards may be unenrolled from the MLS program.

The degree program is awarded Initial Accreditation for five (5) years through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Students completing the program will receive a bachelor's of science degree, indicating successful completion of all required studies.

Upon completion of the program, students are eligible to sit for a number of exams, including the American Society for Clinical Pathology Board of Certification examination (ASCP BOC). The ASCP is the primary registering organization for the industry. The exam is designed for generalists in the field of Medical Laboratory Science. The granting of the degree is not contingent upon the student passing the certification exam.

About Florida Southern College

Founded in 1883, Florida Southern College is a private, comprehensive college and the oldest college in Florida. Florida Southern maintains its commitment to academic excellence through more than 50 undergraduate programs and distinctive graduate programs in business, accounting, education, and nursing. Florida Southern has a 13:1 student-to-faculty ratio; is an award-winning national leader in engaged learning; and boasts 30 NCAA Division II national championships. It is ranked among the Top 20 Best Universities in the South by U.S. News and World Report; named a 2016 Top ROI College by Forbes; and included in The Princeton Review's 381 Best Colleges and The Fiske Guide to Colleges 2023. The College is committed to the development of the whole student through vibrant student life programs that prepare graduates to make a positive, consequential impact on society. FSC is conveniently located within an hour's drive of both Orlando and Tampa and home to the world's largest collection of Frank Lloyd Wright architecture, designated a National Historic Landmark in 2012. Named the "Most Beautiful Campus in the Nation" for two consecutive years by The Princeton Review and one of the nation's "Ten College Campuses with the Best Architecture" by Architectural Digest, Florida Southern is an internationally recognized place of beauty and academic excellence.

About Lakeland Regional Health

As a catalyst for community health, not-for-profit Lakeland Regional Health is reaching beyond its hospital walls to promote wellness, education and discovery in new places and new ways, providing a wide range of inpatient and outpatient healthcare services at its Medical Center, Health Carol Jenkins Barnett Pavilion for Women & Children, Hollis Cancer Center and ambulatory care locations. LRH holds Most Wired Advanced and Most Wired status for 2015-2017 from American Hospital

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Association's Health Forum and the College of Healthcare Information Management Executives and has earned workplace awards from *Forbes*, Gallup and *Becker's Hospital Review*. Its 864-bed comprehensive tertiary referral hospital, Lakeland Regional Health Medical Center, operates a Level II Trauma Center, a Level II Neonatal Intensive Care Unit, the Bannasch Institute for Advanced Rehabilitation Medicine and the second nation's busiest single site Emergency Department. For more information about Lakeland Regional Health, visit http://myLRH.org.

NAACLS's Description of Entry Level Competencies of the Medical Laboratory Scientist

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, Molecular Pathology, 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:

- A. Comply with government regulations and accreditation standards as they pertain to medical laboratory science including but not limited to Florida State, CLIA, CAP, OSHA and other regulatory agencies that govern the medical laboratory science profession;
- B. Follow established procedures for general laboratory safety, biohazard containment, and waste disposal;
- C. Apply principles of data safety and security for laboratory and hospital information systems;
- D. Demonstrate professional and ethical conduct and interpersonal communication skills with diverse stakeholders, sufficient to serve the needs of patients, the public, and members of the health care team. Principles and practices of professional conduct and the significance of continuing professional development;
- E. Recognize and act upon individual needs for continuing professional education and development as a function of growth and maintenance of professional competence;
- F. Establish effective interprofessional working relationships with other health care professionals, demonstrating comprehension of and respect for their job responsibilities and patient care;
- G. Recognize and respect the importance and value of collaborating with a diverse workforce;

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- H. Respect and promote a workplace culture of inclusivity, diversity, equity, and accessibility;
- I. Apply principles of quality assurance to assure validity and accuracy of laboratory data generated;
- J. Exercise principles and practices of administration and supervision of diverse teams and inclusive collaboration as applied to medical laboratory science;
- K. Employ educational methodologies and terminology sufficient to train/educate users and providers of laboratory services;
- L. Utilize principles and practices of clinical or research study design, equity and data bias, study implementation, and dissemination of results.

National Accrediting Agency for Clinical Laboratory Sciences, (NAACLS) 5600 N. River Rd, Suite 720 Rosemont IL 60018-5119

ph: 773.714.8880 fx: 773.714.8886 info@naacls.org www.naacls.org

Admission Requirements

All requirements are included in the Florida Southern College Academic Catalog. If there are any discrepancies, the Academic Catalog supersedes any information listed here. Therefore, students are encouraged to consult with the Academic Catalog to confirm these requirements.

Florida Southern College's medical laboratory sciences (MLS) major provides students with a Bachelor of Science degree and extensive training for a career as a medical laboratory scientist in a four-year program. Medical laboratory scientists play a vital role in the health care system, and are involved in medical diagnosis and treatment. They operate and manage clinical labs, perform research, and are involved in education and training of lab staff. Students in the MLS major gain experience with state of the art automated laboratory equipment, computers and microscopes, and learn the proper procedures for clinical tests involving analysis of patient samples. MLS majors have extensive backgrounds in basic and advanced sciences, including anatomy and physiology, immunology, microbiology, and chemistry. Students must possess the abilities to critically analyze results and troubleshoot problems.

FSC has partnered with Lakeland Regional Health (LRH), the major health care provider in the community, to create a unique program where students spend their MLS Student Handbook

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first three years on the campus of FSC, and their fourth year at LRH clinical labs in the nearby hospital and testing facilities. The curriculum follows the strict guidelines set by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), and the program has been awarded Initial Accreditation for five years by NAACLS. By the end of the program, students are well prepared to take the national certification exam for the Medical Laboratory Scientist administered by the American Society for Clinical Pathology Board of Certification.

Admission Procedure

Enrollment in the MLS major is restricted to six students per year. Admission to the program is competitive, and a comprehensive review of application materials will determine admittance. Acceptance to the college does not guarantee acceptance into the MLS program. Acceptance is based on merit and available space in the program. If admitted to the MLS program, students must maintain an overall Florida Southern College GPA of 3.0 and a final grade of C or better in all MLS major and prerequisite courses. Students who are unable to maintain these standards may be unenrolled from the MLS program.

There are five entry pathways into the MLS pre-certification program.

1.Direct Entry Applicants

High school students may apply to the MLS program and begin their education in the first year to be completed over a four-year time period. Enrollment is limited to six students per year. Acceptance to the college does not guarantee acceptance into the MLS program. Acceptance is based on merit and available space in the program. Students should maintain an overall Florida Southern GPA of 3.0, and have a final grade of C or better in all major and prerequisite courses. Students who are unable to maintain the required academic standards may be unenrolled from the MLS program.

2.Internal Transfer Applicants

Students currently enrolled at Florida Southern in different majors may apply for a change of major into the MLS program. Students must meet all requirements for direct entry, have met or will meet all prerequisite course requirements, and have an overall GPA of 3.0 with a C or better in all major and prerequisite courses. The dean of the School of Arts and Sciences and the MLS director will review all internal applicants and make a final decision for a change in major based on merit and available space in the program. There is no guarantee for transfer into the MLS major from other majors even if the student meets academic eligibility. A student requesting an internal transfer to the MLS major is required to make an appointment

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with the MLS director by Nov. 15 to be considered for the following spring semester, or by March 1 to be considered for the following fall semester.

3. External Transfer Applicants

To apply for admission to the MLS program, a transfer student must first be admitted to the College and, at minimum, should meet the following academic criteria:

- Overall college GPA of 3.0 based on previous coursework.
- Completion of at least four prerequisite courses including BIO 1500, CHE 1111 and CHE 1112 all with a grade of C or higher.
- •Coursework required for the major cannot be transferred if completed more than 5 years before the student matriculates at FSC.

4. Second Degree Seeking Students

Students who have already earned a Bachelor's degree may apply to the program as a second degree seeking student. Upon completion of the program, students will earn a BS degree in MLS. To apply for admission to the MLS program, a second degree seeking student must first be admitted to the College and, at minimum, should meet the following academic criteria:

- Overall college GPA of 3.0 based on previous coursework.
- Completion of at least four prerequisite courses including BIO 1500, CHE 1111 and CHE 1112 all with a grade of C or higher.
- •Coursework required for the major cannot be transferred if completed more than 5 years before the student matriculates at FSC.

5. Five Year Dual Major Pathway

Prior to their senior year, Florida Southern College students may apply for the Five Year Dual Major Pathway. Students who are on track to graduate with a Biology or related major, with all prerequisite MLS courses completed or in progress, can take three MLS courses in their fourth year while they are completing their first major. Students continue for one additional year to complete the remaining requirements for an MLS major and graduate after five years with two majors. Students interested in this program must reach out to the MLS director to review student progress and discuss how the student can fit prerequisite and MLS coursework into their schedules. MLS Student Handbook

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Students must have an overall college GPA of 3.0 with a grade of C or higher in all prerequisite courses for the MLS major.

External Transfer and Second Degree Seeking Student Requirements

Upon application and acceptance to the college, student transcripts will be reviewed by the Registrar. Students are required to create a course plan for degree completion in conversation with a Biology faculty member before they matriculate. Students should be advised that courses in the natural sciences require prerequisite coursework, and transfer students who are not bringing in these courses may be delayed in taking upper level courses until they fulfill these requirements. Coursework required for the major cannot be transferred if completed more than 5 years before the student matriculates at FSC.

Special Requirements

- All pre-certified MLS students are required to participate in clinical laboratory experiences at off-site locations. Each student is responsible for obtaining reliable transportation to the clinical laboratory sites. Students may be assigned laboratory rotations on weekends.
- Each pre-certified MLS student is required to complete a criminal background screening, including fingerprinting, prior to starting the first clinical laboratory course. Note: Any student with a prior arrest or conviction history may be denied entry into the MLS program due to our agency contract agreements. Students who apply to the MLS program with a prior criminal background check must be further screened by the program director and approved by the dean of the School of Arts and Sciences and the MLS Program Director prior to acceptance into the MLS precertification program. Failure to disclose prior criminal history on application or report any subsequent criminal arrest after enrollment at Florida Southern College to the dean of the School of Arts and Sciences and the MLS Program Director may disqualify the student from the MLS program.
- •Each MLS student is required to complete a ten-panel drug screen prior to starting the first clinical laboratory experience. Any student may be requested to repeat the urine drug screen as required by any clinical site or as part of a drug testing program. The cost of the background check and drug screenings is the responsibility of the student. Note: Students who have a positive drug test may be denied acceptance into the MLS program or be unenrolled from the MLS program.
- A blanket student liability insurance policy will cover all MLS students for the time he or she is working in a clinical site as part of a supervised laboratory experience. The student will be billed the annual fee (estimate \$20).

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- In the fall semester of the final year, each MLS student is required to apply for and obtain a trainee license with the state prior to beginning the first clinical rotation.
- Each MLS student is required to provide proof of immunization prior to entering any clinical laboratory. The following are required
- a) Mantoux tuberculin test (2-step method if more than one year has passed since the last Mantoux tuberculin test)
- b) Measles/Mumps/Rubella (MMR) titers
- c) Hepatitis B titer
- d) Hepatitis C titer
- e) Varicella titer
- f) Pertussis (Tdap booster within past 10 years) vaccination record
- g) Tetanus booster every 10 years
- h) Annual flu vaccine
- i) Health statement of physical fitness from health care provider stating student may participate in clinical experience assignments
- j) Any additional requirements specified by your clinical stie, including but not limited to COVID-19 vaccination and boosters.
- The student is responsible for all related costs for immunization. No student will be allowed to begin clinical laboratory experiences until all immunizations or proof of immunity (titers) has been submitted to the MLS director.
- Students who have positive antibodies for Hepatitis C or HIV or other chronic infective diseases that may compromise patient safety, must be further screened and counseled. Because students will have direct contact with patients during the course of their clinical assignments in hospitals and other care settings, specific safeguards or other restrictions to practice may be imposed on the student to protect patients and themselves. The clinical agencies will have final say whether infected students can practice or attend clinical assignments.

Progress Requirements

All MLS majors must earn a grade of C or better in all required coursework for the major and maintain a minimum GPA of 3.0 each semester. Failure to meet these criteria may result in students being unenrolled from the MLS program. Because MLS

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students will participate in direct patient contact in hospitals and other health care settings, there is an expectation of a high standard of conduct and professional behavior for all students. Students who do not maintain the expected level of academic and professional performance may be unenrolled from the MLS program.

Mid Degree check for the Medical Laboratory Sciences (MLS) Bachelors of Science degree To be completed by December 20th of a student's third semester

Name:	Date:
Home Address:	
Phone:Email:	_
Faculty Advisor:	_
Semester/year of Matriculation to FSC: Graduation from FSC:	Anticipated semester/year of
Current overall GPA Current	science and math GPA
Please complete the following chart with the AND the courses you plan to take to complete chart on a separate sheet of paper, if needs	ete your degree. You may also recreate this

Fall 20	Spring 20	Summer 20
Total: credits	Total: credits	
Fall 20	Spring 20	Summer 20
Total: credits	Total: credits	Total: credits
Fall 20	Spring 20	Summer 20

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MLS 3100 Introduction to Clinical Lab Sci and Phlebotomy (4) Total: 16 credits	MLS 4100 Clinical Hematology (3) MLS 4300 Clinical Hemostasis, Urinalysis and Body Fluids (2) Total: 17 credits	
Fall 20	Spring 20	Summer 20
MLS 3200 Clinical Chemistry and Immunology (3) MLS 4500 Molecular Pathology Methods (3) MLS 4200 Clinical Immunohematology (3) MLS 4400 Clinical Microbiology (3) Total: 12 credit	MLS 4800 MLS Practicum (8) MLS 4900 MLS Capstone (4) Total: 12 credits Graduation!	
I attest the information in this	s application is true and accurate	

	• •	
=		-
Signature		Date

Complete the following on a separate sheet and attach to the application:

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- 1. Include a personal statement of no more than 500 words on your experiences as an MLS major, and what motivates you to continue this career track. Include how your education is helping you in this capacity, any contact you have had with medical laboratory scientists, any tours you have taken of clinical facilities, etc.
- 2. Include a current unofficial transcript from Florida Southern College.

Submit the degree check by December 20 to

Dr. Nancy Morvillo

Professor and Chair of Biology and Pre-Medical Studies Coordinator

Florida Southern College

Certification & Licensure

Trainee License:

All students must apply for and obtain a Board of Clinical Laboratory Personnel Trainee License from the State of Florida Department of Health <u>prior to beginning</u> their clinical rotations in their final semester. The cost of the license is \$45.

Certification Licensing:

It is the responsibility of each student to make every effort to complete the full internship. Academic credit is awarded ONLY upon completion of the entire course of study.

Upon successful completion of all required coursework, students are granted a baccalaureate degree from the college in Medical Laboratory Sciences. They are then eligible to take national certification exams, such as the <u>American Society of Clinical Pathologists (ASCP) Board of Registry, the American Medical Technologists (AMT), or the American Association of Bioanalysts (AAB) and are also eligible for licensure as a Clinical Laboratory Technologist in the State of Florida. Awarding the MLS degree is not contingent upon passing external licensure or certification examinations.</u>

NAACLS STATEMENT

The <u>Florida Southern College MLS program is awarded Initial Accreditation for five</u> (5) years with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

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National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

5600 N. River Rd. Suite 720 Rosemont, IL 60018-5119 847-939-3597 773-714-8880 773-714-8886 (FAX) info@naacls.org

State of Florida

Department of Health Board of Clinical Laboratory Personnel P.O. Box 6330 Tallahassee, FL 32314-6330

Phone: (850) 245-4355

www.floridasclinicallabs.gov/

American Society for Clinical Pathology - Board of Certification (ASCP-BOC)

It is the intent that all students who successfully complete the MLS program at FSC will take the ASCP-BOC exam. The exam is an online exam that is administered at the Pearson Professional Center. Students must submit the official transcripts showing completion of the requirements to be eligible to take the exam.

All applications to take the exam are completed online at www.ascp.org/Board-of-certification. The application fee for the ASCP-BOC for MLS currently is \$250.00.

Florida applicants should also complete state licensure application found on the Florida Department of Health website. Failure to complete the Florida licensure delays receiving the Florida license.

American Society for Clinical Pathologists (ASCP)

33 W. Monroe, Suite 1600 Chicago, Illinois 60603

Phone: (800) 267-2727 or 312-541-4999

www.ascp.org

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American Medical Technologist (AMT)

American Medical Technologists American Medical Technologists (AMT) is a national agency that certifies examination based primary designations of healthcare personnel including Medical Laboratory Scientist. All AMT certification examinations are constructed and administered in accordance with methodologies recognized by both psychometric and credentialing communities. Purpose of the Certification Examinations AMT certification examinations are intended to evaluate the competence of entry-level practitioners. All applications to take the exam are completed online at: www.americanmedtech.org. All AMT examinations are administered on computer at Pearson VUE testing center. Through computer-based testing (CBT). The application fee for the AMT MLS currently is \$245.00.

Florida States division of Clinical Laboratory Personnel recognize AMT's examinations for Medical Laboratory Scientist (MLS). Florida applicants should also complete state licensure application found on the Florida Department of Health website. Failure to complete the Florida licensure delays receiving the Florida license.

American Medical Technologist (AMT)

Florida - Fla. Admin. Code §§ 64B3-5.003, 64B3-5.004

10700 W. Higgins Road, Suite 150

Rosemont, Illinois 60018

Voice: (847) 823-5169

E-mail mail@americanmedtech.org

Web: www.americanmedtech.or

Curriculum

A maximum of **six students** are accepted yearly with classes typically beginning in early August and ending in late April. MLS coursework consists of both **practical laboratory experience and didactic lectures**. Examinations are given on both the practical training and didactic material. To be eligible for certification as a medical technologist at the end of the year, a minimum passing score of 70% (C) must be maintained.

The curriculum consists of scheduled formal didactic lectures, rotation through assigned departments for practical training, assigned projects, formal and informal discussions, reading assignments, reviews and examinations. Final grades are calculated using both theoretical and practical grades.

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The normal school day of didactic coursework may consist of an eight (8) hour day (excluding 1/2 hour for lunch), Monday through Friday. Didactic theory courses are instructor-led and may be partially web-based. Therefore, hybrid coursework may be completed at home at the discretion of the instructor. Lab coursework related to each didactic theory course will be completed within the clinical lab during the regular school day. All students will attend any assigned formal didactic lectures. A master lecture schedule (that will have topics and references) will be provided at the beginning of the program. Since the lecture schedule is subject to change, a monthly schedule will be provided to each student. Final examinations for each didactic course will be given. Any student absent on a scheduled exam day must have a valid excuse, and will be expected to take the exam within 7 days of the completion of the course or receive a zero (F) for the exam. All laboratory practical examinations, quizzes, review exams and other assignments must be completed before the student may take the final exam for the didactic course.

After completion of the fall term and required didactic coursework and required Comprehensive Laboratory Exam, students will be assigned to the clinical practicum. The program guarantees that students will be placed in all rotations as long as the student remains in good academic standing. The 15-week practicum is 40 hours per week, Monday through Friday. During the clinical rotation, they typical schedule will depend on the clinical department. For Main Clinical Lab the typical schedule will be 6:00am to 2:30pm; for Microbiology will be 7:00am to 3:30pm; for Oneblood (Blood Bank) will be 8:00am-4:00pm. However, students may be asked to modify the schedule to complete certain laboratory experiences. One-on-one practical and theoretical instruction by qualified medical laboratory scientists is given as each student rotates through the various laboratory sections. Clinical placement is always included in the schedule at the beginning of the year. Each student will rotate through the laboratory departments according to his/her own schedule.

Each rotation is self-contained. Students receive a rotation syllabus which contains rotation objectives and assignments, study guides, and checklists of required skills. Practical and written exams will be given in each rotation.

A comprehensive exam for the clinical semester will be required prior to graduation. Students to successfully pass the cumulative exam to pass the MLS program. Grading for the comprehensive exam will be on a pass/fail basis. Students must attain a minimum score of 70% for successful completion of the program. Students failing the comprehensive exam will be given additional study time and an opportunity to take one comprehensive make-up exam. Students must achieve a passing grade of 70% or better on the make-up exam in order to fulfill graduation requirements.

Guarantee of Clinical Assignment:

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Florida Southern College and Lakeland Regional Medical Center anticipate having six students maximum seeking placement for clinical practicum. The number of students will never exceed the number of positions available. However, in the event that more than six students are waiting for clinical placement, students will be prioritized according to GPA in the MLS courses. Students who were not placed will be assigned to clinical sites by the end of calendar year in which they were eligible for clinical rotations.

Medical Laboratory Science Major Requirements

A. General Education Requirements40 hours
B. Major Requirements84 hours
BIO 1500 Biology I: Biological Essentials BIO 1501 Current Perspectives in Biology (FTC only) BIO 2215 Human Anatomy and Physiology I BIO 2216 Human Anatomy and Physiology II BIO 3710 Microbiology BIO/CHE 3362 Biochemistry: Molecular Biology BIO/CHE 3362 Biochemistry: Molecular Biology BIO 4300 Immunology CHE 1111 Principles of Chemistry I CHE 1112 Principles of Chemistry II CHE 2231 Organic Chemistry I lab CHE 2221 Organic Chemistry I lab CHE 2222 Organic Chemistry II CHE 2252 Organic Chemistry II lab MAT 2032 Biostatistics or MAT2022 Elementary Statistics and MAT 2027 Transition to Biostatistics MLS 3100 Introduction to Clinical Laboratory Sciences and Phlebotomy MLS 3200 Clinical Chemistry and Immunology MLS 4100 Clinical Hematology MLS 4300 Clinical Immunohematology MLS 4300 Clinical Hemostasis, Urinalysis and Body Fluids MLS 4400 Clinical Microbiology
MLS 4500 Molecular Pathology Methods

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MLS 4800 Medical Laboratory Science Practicum MLS 4900 Medical Laboratory Science Capstone

C. Bachelor of Science Degree Requirements	12 hours
D. Electives	0 hours
E. Totalhours	134-137

Suggested Medical Laboratory Sciences B.S. Major Four Year Plan



Long Term Academic Planning Worksheet: ____

_Medical Laboratory Sciences (MLS) major

All plans are unofficial. Final schedules may be based on many factors, including but not limited to: course availability, prerequisite completion, degree requirements, post-graduate needs and student interest. Academic plans and career paths should be discussed on a regular basis with the student's advisor, other faculty and professional staff in the Office of Career Services.

Year 1		Year 2		Year 3		Year 4	
Fall 20		Fall 20		Fall 20		Fall 20	
BIO 1500 – Biology I: Biological Essentials + lab (Major, WF: Science) BIO 1501- Current Perspectives in Biology (Major) CHE 1111 – Principles of Chemistry I + lab (Major) WF: Written Com. WF: Global	4 1 4 4 4	BIO 2216- Human A&P II + lab (Major) CHE 2231 – Organic Chemistry I (Major) CHE 2251- O. Chem. I lab (Major) WF: Soc. Beh. Sci. WF: Resilience Elective	4 3 1 4 2 4	BIO 3710 – Microbiology + lab (Major) MLS 3100 Introduction to Clinical Lab Sciences and Phlebotomy (Major) MAT or CSC course (BS degree) WF: Fine Arts	4 4 4	MLS 3200 Clinical Chemistry and Immunology (Major) MLS 4200 Clinical Immunohematology (Major) MLS 4400 Clin. Micro. (Major) MLS 4500 Mol. Path. Methods (Major)	3 3 3
Credits	17	Credits	18	Credits	16	Credits	12
Spring 20	Spring 20 Spring 20 Spring 20		Spring 20		Spring 20		
BIO 2215 – Human A&P I + lab (Major) CHE 1112 – Principles of Chemistry II + lab (Major) MAT 2032 – Biostatistics (Major, WF: Math) WF: Oral Com.	4 4 4 4 16	BIO 3850 Parasitology (Major) CHE 2252 – O. Chem. II (Major) CHE 2252- O. Chem. II lab (Major) WF: Humanities Elective (Soc. Sci. BS degree) Credits Summer 20	4 3 1 4 4	BIO 3362 – Biochemistry: Molecular Biology (Major) BIO 4300 Immunology (Major) MLS 4100 Clin. Hematol. (Major) MLS 4300 Clin. Hemo., Urinalysis and Body Fluids (Major) Elective Credits Summer 20	4 4 3 2 4 17	MLS 4800 MLS Practicum (Major) MLS 4900 MLS Capstone (Major) Credits Summer 20	12
Credits		Credits		Credits		Credits	
Experiences/Activities: Experiences/Activitie		Experiences/Activities:		Experiences/Activities:		Experiences/Activities:	
						ASCP BOC exam	

"WF" are the WRIGHT Foundations courses, FSC's general education curriculum. There are many options for these and the BS degree requirements, and these can be moved to fit anywhere in the schedule. At least 124 hours are required for the BS degree.

Updated: May 15, 2024

Parenthesis indicate number of credit hours for the course and the graduation requirement fulfilled by the course

MLS Course Descriptions

MLS 3100 Introduction to Clinical Laboratory Sciences and Phlebotomy Skills

Four hours: Prerequisite:

Medical Laboratory Sciences majors. Co-requisite or prerequisite: BIO 3710. Basic aspects of clinical laboratory sciences are covered, including general clinical laboratory safety, proper use and care of laboratory equipment, an overview of clinical laboratory tests, administrative aspects of clinical laboratory work, and educational and career requirements for the MLS

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professional. In addition, various aspects of phlebotomy are explored, including the conceptual, procedural, legal and ethical aspects of working with specimens, samples and patients.

Course Student Learning Outcomes:

- Demonstrate knowledge of correct laboratory safety procedures for the clinical laboratory, and how to follow appropriate safety procedures for working with patients and blood samples.
- Demonstrate knowledge of correct use and maintenance of basic clinical laboratory equipment, and appropriate techniques for specimen and sample collection.
- Demonstrate knowledge of the appropriate materials and protocols for testing samples and specimens.
- Explain the necessary quality assurance and quality control aspects of a clinical laboratory.
- Identify important parameters of basic health care and clinical testing procedures.
- Identify effective communication skills necessary to obtain vital information from patients.
- Explain professional, legal and ethical aspects of patient care.
- Identify educational and career requirements necessary for the MLS professional.
- State the special knowledge and talent of other members of the health care team needed for quality patient care.
- Explain the impact of federal and state regulatory agencies on the clinical laboratory.

MLS 3200 Clinical Chemistry and Immunology

Three hours: Prerequisite: Medical Laboratory Sciences majors and BIO 4300. Prerequisite or co-requisite: MLS 3100. Explore critical chemical and immunological concepts for the medical laboratory sciences professional.

Course Student Learning Outcomes:

- Demonstrate proficiency in chemical calculations needed for clinical chemistry.
- Describe clinical chemistry and immunological methodologies used for the diagnosis of health conditions.
- Demonstrate knowledge of the anatomical, physiological and chemical functions of the body which contribute to various states of health and disease.
- Demonstrate knowledge of the correct use and maintenance of basic instrumentation necessary for clinical chemistry and immunology.

 Explain the clinical significance of biochemical macromolecules and other markers in the diagnosis of health conditions.

MLS 4100 Clinical Hematology

Three hours: Prerequisite: MLS 3100. A detailed exploration of structure, function and disorders of hematopoietic cells and tissues.

Course Student Learning Outcomes:

- Demonstrate knowledge of the correct use and maintenance of basic instrumentation necessary for clinical hematology.
- Explain the clinical significance of hematology tests in the diagnosis of health conditions.
- Describe hematology test methods used for the diagnosis of health conditions.
- Demonstrate knowledge of the hematopoietic system and the role of hematopoiesis in various states of health and disease.
- Describe flow cytometry test methods and bone marrow analysis as used for the diagnosis of health conditions.

MLS 4200 Clinical Immunohematology

Three hours: Prerequisite: MLS 3100 and BIO 4300. A detailed exploration of the processes of blood donation and transfusion, with emphasis on detection and analysis of blood components and disease states.

Course Student Learning Outcomes:

- Identify the clinical aspects of blood donations and transfusions.
- Describe the preparation and storage of blood components.
- Identify appropriate testing protocols for blood antigens, antibodies, compatibility, and disease states.
- Describe appropriate quality controls and regulations for blood banks.

MLS 4300 Clinical Hemostasis, Urinalysis and Body Fluids

Two hours: Prerequisite: MLS 3100. A detailed exploration of structure, function and disorders of thrombopoietic cells and kidney and urinary structure and function, with emphasis on testing procedures for coagulation, urine and other body fluids.

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Course Student Learning Outcomes:

- Demonstrate knowledge of the correct use and maintenance of basic instrumentation necessary for coagulation testing.
- Explain the clinical significance of coagulation tests in the diagnosis of health conditions.
- Describe the structure and function of the urinary system.
- Identify aspect of renal and extrarenal diseases.
- Describe basic methods and tests involved in urinalysis and kidney function.
- Describe basic methods and tests involved in analysis of other body fluids.

MLS 4400 Clinical Microbiology

Three hours: Prerequisite: MLS 3100 and BIO 3710. Explore the basic morphology and biochemical characteristics of clinically significant microorganisms, along with appropriate testing procedures for detection in patient samples.

Course Student Learning Outcomes:

- Describe the roles of the clinical microbiology laboratory.
- Describe the biology of clinically significant microorganisms, including bacteria, fungi, mycobacteria, viruses, and parasites that cause human disease in correlation to pathogenesis, epidemiology, clinical diagnosis and treatment.
- Describe methodology used to identify clinically significant microorganisms including specimen collections, handling, transport, quality control methods, organism's identification, media selection, and automation.
- Identify appropriate safe laboratory procedures for infection control.

MLS 4500 Molecular Pathology Methods

Three hours: Prerequisite: MLS 3100 and BIO 3362. This course consists of an introduction to the principles, methodologies and applications of molecular pathology used in modern molecular clinical testing laboratories. Molecular diagnostic testing of acquired, inherited and infectious diseases, as well as cancer, are explored. The course also addresses various aspects of molecular analysis, clinical decision making, quality assurance, information management, molecular testing regulations and compliance, and ethical issues.

Course Student Learning Outcomes:

- •Explain the basic structure of DNA, (including chromosomal morphology) replication, and transcription of DNA as well as the translation of RNA.
- •Describe the principles, procedures, and applications of molecular biology in clinical laboratory science
- •Identify molecular techniques to analyze mutations in DNA, including PCR and sequencing.
- •Discriminate between various methods of nucleic acid amplification employed in clinical laboratories by identifying the amplified product, describing the amplification method, and outlining the method of product detection.
- •Describe appropriate laboratory operations, including quality control, for a molecular pathology laboratory.
- •Explain the layout of different molecular analysis methods and to understand in depth how the methods work
- Explain how these methods are applied in current research and diagnostics, including diagnosis of inherited diseases, cancer, and infectious diseases.
- Evaluate advantages and disadvantages of the methods
- •Independently select appropriate molecular methods for a given application

MLS 4800 Medical Laboratory Sciences Practicum

Eight hours: Prerequisite: MLS 3100 and MLS 4400. Application of medical testing concepts to laboratory settings. Students will rotate through multiple laboratory facilities in a clinical setting to gain experience in the methods and procedures needed for the Medical Laboratory Science professional.

Course Student Learning Outcomes:

- •Demonstrate competence to perform concepts/basic skills and tasks/test procedures as an entry-level Medical Laboratory Scientist at the completion of clinical experience. Each of these concepts/basic skills and tasks/test procedures is correlated with the curriculum objectives for this area.
- •Demonstrate appropriate procedures for common clinical tests.
- Analyze quality control/assurance, and results of common clinical lab tests.
- Determine appropriate methods for common clinical lab tests.
- Demonstrate proper safety procedures in clinical lab settings.
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MLS 4900 Medical Laboratory Sciences Capstone

Four hours: Prerequisite: MLS 3100 and MLS 4400 and successful completion of coursework that satisfies Effective Communication SLOs A and B. Students will consider special topics in Medical Laboratory Sciences, which may include case study analysis, interpretation of information and consideration of new technologies. Students will perform literature and/or laboratory research, and will present their findings in oral and written formats. *Gen Ed: EC-C*

Course Student Learning Outcomes:

- Demonstrate competency in oral and written communication.
- Analyze primary literature pertinent to the MLS professional.
- Gather data for an original research project.
- Students will demonstrate the ability to organize ideas around a thesis or focal
 point and incorporate relevant content and evidence in written work and/or
 oral presentations using current relevant technologies.
- Students will demonstrate mastery of elements of good writing, knowledge of field-specific vocabulary, and the ability to use major specific documentation in text (MLA, APA, Chicago, etc.) and/or properly cite materials in oral presentations.
- Students will evaluate successful field-specific works (for example, peer reviewed academic journal articles) or successful field-specific oral presentations (for example, conference presentations).
- Students will demonstrate the ability to construct an informative presentation (oral or written) based on real quantitative and/or qualitative data, and create and receive peer evaluation of oral presentations.
- Students will demonstrate the ability to develop goals and objectives, lesson design, and assessment of instructional outcomes related to the clinical laboratory field.
- Discuss current topics in laboratory management and education
- Develop appropriately written and leveled educational objectives and matching assessment tool
- Identify financial resources for clinical laboratory budget
- Demonstrate competency/proficient in oral and written communication on the topics of clinical laboratory field.
- Enhance critical thinking and problem solving skills
- Analyze primary literature pertinent to the MLS professional.
- Apply the essential tools of inquiry to collect and evaluate a topic in clinical laboratory science.
- Development of a project proposal for the capstone research project (clinical laboratory research or a clinical application)

- Conduct research using primary sources and peer reviewed professional journals.https://flsouthern.instructure.com/calendar
- Gather data for an original research project.
- Synthesize information pertaining to the research project.
- Utilize specific scientific method to answer problems including hypothesis generation, specific aims development, literature search, and research project presentation of results or clinical application to leadership and administration.
- Synthesize information pertaining to the research project.

ACKNOWLEDGMENT PAGE



ACKNOWLEDGMENT PAGE

Please read, sign and submit this docume	ent to the Syllabus Assignment in Canvas.
	owledge that I have read, understood and agree to the policies I Course Syllabus, and I understand my role as the student and ate.
Course ID: MLS 4800 Medical Laboratory	y Science Practicum
Term: Spring 2023	
Signature of Student	Date
Student ID#:	

Academic Policies

All academic policies pertaining to admissions, fees, financial aid, <u>advising</u>, course loads, withdrawals, disability services, discrimination, FERPA, etc. may be found in the Florida Southern College catalog.

For academic standing issues, information can be found in the Academic Catalog on pages 43-48.

https://www.flsouthern.edu/academic-life/academic-catalog

Modifications to Policy:

- ❖ The Medical Laboratory Sciences Professional and Academic Standards Committee reserves the right to make modifications to the MLS policies.
- ❖ Policies take effect on the date of approval by the committee.
- ❖ Notification of the new policies will be posted to the MLS website within five working days of their approval.

General Policies

- A. Students are expected to attend 100% of all MLS classes.
- B. Students are expected to complete lessons, assignments, quizzes and exams according to the course schedule, syllabus and/or calendar. If an emergency or illness occurs that prohibits the students from accomplishing the above, it is the student's responsibility to contact the instructor (in person or by telephone, voicemail or email) prior to the absence.
- C. It is the student's responsibility to read and obtain notes or course materials from other students after an absence. Each instructor reserves the right to determine how they will incorporate lessons, assignments, quizzes, and/or exams not completed into the student's final grade.
- D. It is the instructor's decision to allow or not allow any make-up of lessons, laboratory experiences, assignments, quizzes and/or exams.
- E. Student class attendance will be verified by the completion of class assignments or participation evaluation. Class attendance records may be reviewed as part of determining the affective portion of the student's evaluation which counts in their overall grade according to the instructor's discretion. If an absence is lengthy, the student may not receive credit and must repeat the course the next time it is offered.
- F. Tardiness will not be tolerated and will be reflected on affective evaluation forms. Each instructor will inform the student how tardiness will be incorporated into the course grade. Promptness is also expected following breaks in either lecture or laboratory experiences.

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- G. Format of make-up exams may differ from the original exam delivered in class. The format of the make-up exam will be determined by the course instructor.
- H. Use of any electronic devices is not allowed during any quiz or exam both in lecture and laboratory experiences (except approved calculators) unless approved by the instructor of the course.
- I. Cell phones must be turned off during all lectures, quizzes, exams and laboratory experiences.

Statements of the SLOs for the MLS major are included below:

- 1. SLO 1: Scientific Method: Students will appropriately apply aspects of the Scientific Method to novel situations.
- 2. SLO 2: Acquire knowledge related to the field of medical laboratory science.
- 3. SLO 3: Effective Communication: Students will obtain competency in oral and written communication skills.
- 4. SLO 4: Research Skills: Students will demonstrate the ability to conduct research applicable to medical laboratory diagnostic and the importance of patient care.
- 5. SLO 5: Gain practical skills of Clinical Laboratory Testing Procedures: Students will demonstrate appropriate techniques in the use of laboratory equipment and the methodology involved in experimentation and clinical testing to conduct competent clinical laboratory testing.
- 6. SLO 6: Apply Critical Thinking Skills: Students will be able to critically evaluate and interpret clinical laboratory data to contribute effectively to clinical diagnosis, monitored treatment, and patient care though analysis of laboratory data.

A table indicating where SLOs are Introduced (I), Reinforced (R) or Mastered (M) within required coursework for the MLS degree is included below:

Required Course	SLO 1: Scientifi c Method	SLO 2: Acquire knowledg e related to the field of medical laboratory science.	SLO 3: Effective Communicatio n	SLO 4: Researc h Skills	SLO 5: Gain practical skills of Clinical Laboratory Testing Procedure s	SLO 6: Apply Critical Thinkin g Skills
BIO 1500	I	I	I	I	I	I
BIO 2215		I	I		I	I
BIO 2216		I	I		I	I
BIO 3710	R	R	R	R	R	R
BIO 3362	R	R	R			R
BIO 3850	R	R	R		R	R
BIO 4300		R	R			R
CHE 1111/1112	I			I	I	I
CHE 2231/2251 / 2232/2252	I			I	R	I
CHE 3371	R					R
MAT 2032	I			I		
MLS 3100	R	R	R	R	R	R
MLS 3200	М	R	R		R	М
MLS 4100	М	R	R		R	М
MLS 4200	М	R	R		R	М
MLS 4300	М	R	R		R	М
MLS 4400	М	R	R		R	М
MLS 4500	М	R	R		R	М

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MLS 4800	М	М	М	М	М	М
MLS 4900	М	М	М	М	М	М

Program	1. Acquire the necessary educational	2. Demonstrate	3. Apply critical	4. Develop	5. Instill the	6. Develop, build,	7. Grow the	8. Become lifelong	9. Teach,
Goals	knowledge to be part of a high-performance	competent practical	thinking skills	effective	importance of quality	and sustain a	profession of	learners as they seek	demonstrate, and
	laboratory team that provides timely and	laboratory skills of the		communication	assurance and quality	courteous and	medical	to maintain	promote ethical
	accurate laboratory results for the purpose of	quality workflow in		skills	improvement in all	professional	laboratory	professional	behavior and to
	diagnosing and treating disease and	preanalytical, analytical			aspects of laboratory	working	science through	competence and	provide the building
	maintaining health	and post-analytical			performance	environment for	the provision of	continuing	blocks for future
		process				students,	highly skilled and	education for career	leadership endeavors
						patients, and all	dedicated	growth	
						members of the	professionals		
						healthcare team			

Student	SLO 1: Scientific Method: Students will	SLO-2: Acquire	SLO-3: Effective	SLO-4: Research	SLO 5: Gain practical	SLO 6: Apply
Learning	appropriately apply aspects of the Scientific	knowledge related to	Communication:	Skills: Students	skills of Clinical	Critical Thinking
Objectives	Method to novel situations. Goals: 1, 2	the field of medical	Students will obtain	will demonstrate	Laboratory Testing	Skills: Students
(SLOs)		laboratory science.	competency in oral and	the ability to	Procedures: Students	will be able to
		Goals: 1, 5, 8	written communication	conduct	will demonstrate	critically
			skills.	research	appropriate	evaluate and
			Goals: 4, 7, 6	applicable to	techniques in the use	interpret clinical
				medical	of laboratory	laboratory data
				laboratory	equipment and the	to contribute
				diagnostic and	methodology involved	effectively to
				the importance	in experimentation	clinical diagnosis,
				of patient care.	and clinical testing to	monitored
				Goals: 1, 2, 6, 9	conduct competent	treatment, and
					clinical laboratory	patient care
					testing.	though analysis
					Goals: 1, 2, 3, 6	of laboratory
						data. Goals:1, 2,
						3, 4, 5, 6, 7, 8, 9

Academic Performance:

The grades for each course will be determined using the following sources:

Cognitive:	Quizzes, Case Study, Exams
Psychomotor:	Performance Evaluation
Affective:	Performance Evaluation/Affective
	Evaluation

- A. **Cognitive Performance Evaluation**: A satisfactory grade of C or better must be attained on the accumulation of points for quizzes and exams for each theory course.
- B. **Psychomotor:** A satisfactory grade of C or better must be attained on the accumulation of points for the performance evaluation for each course (theory course with lab and clinical practicum). Failure to obtain an overall grade of C or better for any rotation will result in the student being placed on probation for the remainder of the clinical practicum.
- C. Critical Objectives: All critical objectives in each course must be successfully performed. If any critical objective is not successfully completed, the student MUST remediate the failed critical objective. Any student who has failed any critical objective needs to refer to the section on Remediation for specific

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- guidelines. Failure to obtain successful completion of any critical objective in any course will result in the non-probationary student being placed on probation for the remainder of the course. Please see the section on Probation for specific guidelines.
- D. **Clinical Objectives:** As part of the practicum performance evaluations, the student must receive a passing score to successfully complete each clinical objective. Any score below passing on any clinical objective is considered a failing score for that portion of the practicum.
- E. Affective Performance Evaluation: A satisfactory grade of C or better must be attained on the evaluation for each rotation in the practicum. Failure to obtain a satisfactory grade or better for any rotation will result in the student being placed on probation for the remainder of the practicum.

Probation Policy

A student will be placed on probation under any of the following circumstances:

- A. A student fails to successfully complete a cognitive course (mid-term and final exams), a performance evaluation (bench), a critical objective, or the affective performance evaluation as outlined above.
- B. A student lacks professional conduct such as:
 - a. Disregard for the patient's rights to confidentiality and privacy according to HIPAA legislation.
 - b. Disregard for good, quality patient care (inconsistent or inaccurate work, consistent careless attitude with patients).
 - c. Failure or inability to adhere to MLS departmental or LRH policies.
 - d. Failure to demonstrate academic honesty and integrity: The FSC MLS program abides by the FSC Student Handbook which includes the procedure for student dismissal related to academic dishonesty and failure to comply with stated rules relating to substance abuse.
- C. A student who does not adhere to <u>State of Florida Guidelines</u>: Students are licensed as trainees by the State of Florida, and grounds for disciplinary action against clinical laboratory personnel as stated in Florida Statute 483.825 (listed below) will be grounds for disciplinary and/or legal action against the student.

The following constitute grounds for disciplinary actions:

a. Attempting to obtain, obtaining, or renewing a license or registration under this part by bribery, by fraudulent misrepresentation, or through an error of the department or the board.

- b. Engaging or attempting to engage in, or representing himself as entitled to perform, any clinical laboratory or category of procedures not authorized pursuant to his license.
- c. Demonstrating incompetence or making consistent errors in the performance of clinical laboratory examinations procedures or erroneous reporting.
- d. Performing a test and rendering a report thereon to a person not authorized by law to receive such services.
- e. Having been convicted of a felony or any crime involving moral turpitude under the laws of any state or of the United States. The record of conviction or certified copy thereof shall be conclusive evidence of such conviction.
- f. Having been adjudged mentally or physically incompetent.
- g. Violating or aiding and abetting in the violation of any provision of this part or the rules adopted hereunder.
- h. Reporting a test result when no laboratory test was performed on a clinical specimen.
- i. Knowingly advertising false services or credentials.
- j. Having a license revoked, suspended, or otherwise acted against, including the denial of licensure, by the licensing authority of another jurisdiction. The licensing authority's acceptance of a relinquishment of a license, stipulation, consent order, or other settlement, offered in response to or in anticipation of the filing of administrative charges against the licensee, shall be construed as action against the license.
- k. Failing to report to the board, in writing, within 30 days if action under subsection (10) has been taken against one's license to practice as clinical laboratory personnel in another state, territory, or country.
- l. Being unable to perform or report clinical laboratory examinations with reasonable skill and safety to patients by reason of illness or use of alcohol, drugs, narcotics, chemicals, or any other type material or as a result of any mental or physical condition. In enforcing this paragraph, the department shall have, upon a finding of the secretary or his or her designee, that probable cause exists to believe that the licensee is unable to practice because of the reasons stated in this paragraph, the authority to issue an order to compel a licensee to submit to a mental or physical examination by physicians designated by the department. If the licensee refuses to comply with such order, the department's order directing such examination may be enforced by filing a petition for enforcement in the circuit court where the licensee resides or does business. The department shall be entitled to the summary procedure provided in s.51.011. A licensee affected under this paragraph shall at

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- reasonable intervals be afforded an opportunity to demonstrate that he or she can resume competent practice with reasonable skill and safety to patients.
- m. Delegating professional responsibilities to a person when the licensee delegating such responsibilities knows, or has reason to know, that such person is not qualified by training, experience, or licensure to perform them.

A student on probation may be dismissed from the Medical Laboratory Science program if the student fails a subsequent didactic and/or practical work area. As a result the student will not receive a BS degree in Medical Laboratory Science, nor be eligible for the ASCP Board of Certification (BOC) or American Medical Technologist (AMT) examination.

Remediation

Remediation in course will be determined by the Program Director.

- A. A student will be allowed one remediation total.
 - a. A student may remediate any one area: cognitive, psychomotor including a single critical objective, or affective area.
 - b. The student must successfully complete remediation to continue in the program. Failure to successfully remediate an identified area will result in program dismissal.
- B. Cognitive Remediation:
 - a. Failure to obtain a passing score will result in remediation of the course content. The Program Director will work with the student to establish remediation of the course content.
 - b. If a passing score is achieved, the grade issued will be no higher than a grade of C.
- C. Psychomotor/Affective Remediation: Credit for unsatisfactory performance may be earned by satisfactorily completing one of the following:
 - a. Additional days in the department where the unsatisfactory performance was achieved. Additional clinical experience time will be scheduled at the discretion of the department supervisor and the Program Director. Documentation of the remediation goals and evaluations will be discussed with the Program Director, the department supervisor, and the student.
 - b. Complete repetition of the entire departmental rotation may be deemed necessary. This will be completed at the end of the clinical practicum and a grade of incomplete will be assigned until all course requirements are met. The student would not be eligible for graduation or to sit for the ASCP Board of Certification (BOC) or American Medical Technologist (AMT) examination until successful remediation has occurred.
 - c. If a passing score is achieved, the grade issued will be no higher than a grade of C.
 - d. If remediation requires additional time spent on the bench the student must submit, in writing, to the Program Director goals to identify the adjustments that will be made by the student to achieve a satisfactory performance evaluation.
- D. Conditions: A student on probation will remain in the program if all of the following are met:
 - a. The student continues to successfully complete and pass all subsequent coursework.
 - b. The student resolves the failure with remediation.

c. The student maintains the specific expectations listed on the signed probation letter.

Program Dismissal

All dismissal/termination policies from FSC apply to the MLS program and the clinical practicum at LRH. The following are additional grounds for immediate program termination in the clinical practicum portion of the program.

A. Academic Dismissal:

- a. Failure to meet probation specifications
- b. A failing score following one successful remediation
- B. Lack of Professional Student Conduct:
 - a. Disregard for the patient's rights to confidentiality and privacy according to HIPAA legislation.
 - b. Disregard for good, quality patient care, inconsistent or inaccurate work, or consistent careless attitude with patients.
 - c. Failure or inability to adhere to MLS departmental or LRH policies.
 - d. Academic dishonesty and failure to comply with stated FSC rules relating to substance abuse.

C. Drug Screen:

Any student may be subject to a drug of abuse screen prior to or during a clinical rotation at a medical center. Any student who tests positive for drugs of abuse will be removed from the clinical experience and will not be allowed to complete the required courses to earn a BS in Medical Laboratory Sciences.

Cheating

Cheating of any kind may result in immediate dismissal. This policy includes all work performed, including exams, quizzes, worksheets, laboratory tests, case histories, projects, etc.

Communication

FSC/MLS communication will only be done by the FSC email, or LRH email address. It is the student's responsibility to maintain their most current email address and mailing address. In <u>extraordinary circumstances</u>, the Program Director will communicate via telephone or text when need it.

Grievance Procedure Students with Disabilities

Florida Southern College welcomes all students seeking to further their education. Accordingly, Florida Southern College prohibits discrimination against any qualified student with a disability.

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New Applicants

A student applying to Florida Southern College is not required to disclose a disability. When a disability is disclosed during the application process, it is not used in any way to determine admission to the college. Similarly, when a student receives a letter of admission, it is not a guarantee that the college can accommodate a given disability. Admissions and disability accommodations are two separate processes.

The Office of Student Disability Services (SDS), which coordinates reasonable accommodations for students with documented protected disabilities, engages in an interactive process with the student to determine accommodations that can be made. SDS mails or emails a form describing the procedure for submitting documentation and follows through with a letter detailing the reasonable accommodations.

Florida Southern College can provide according to the nature of the disability. Florida Southern College is committed to equality of educational opportunities for qualified students with disabilities.

Currently Enrolled Students

When a currently enrolled Florida Southern College student requests reasonable accommodations for a protected disability, such requests are evaluated on a case-bycase basis, using an individualized and collaborative process. First, Florida Southern reviews the submitted supporting documentation to determine the nature of the disability and the accommodations being requested to overcome disabilityrelated barriers to college living and learning. After sharing with the student in writing the accommodations FSC can provide, discussing and clarifying the Accommodation Plan as needed, and over a consent waiver signed by the student, appropriate faculty and staff receive copies of the student's Accommodation Plan which includes a list of reasonable accommodations. These approved recipients typically receive the Accommodation Plan within 1 - 5 working days after the student waiver is signed. Florida Southern College welcomes the opportunity to ensure equal access to all qualified, enrolled students. Thus, appropriate case-by-case accommodations are provided for students with documentation of a protected disability. To be considered for accommodations, the student must make their disability known to the college and students who do not seek accommodations are not required to disclose a

Requests for disability accommodations must be made each academic year. Students should speak to each faculty member very early each semester to agree together how the accommodation will be implemented in a given class. Self-advocacy by students is encouraged, as well as taking the initiative in requesting desired appropriate accommodations and having relevant diagnostic tests or other professional evaluations to verify the need for accommodations.

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FCS/LRH reserves the right to make changes to the student handbook program information, as circumstances require.

Accommodations cannot be applied retroactively to a previous point in the semester or academic year. Rather reasonable accommodations are active from the date of approval forward. In some cases, a request for an accommodation may be denied. Florida Southern College has adopted an internal grievance procedure for providing prompt and equitable resolution of complaints alleging any action prohibited by the Americans with Disabilities Act (as Amended and implemented in 2009-ADAAA) and by Title III regulations implementing Section 504 of the Rehabilitation act of 1973, as amended (29 U.S.C. section 794).

A student who is currently enrolled in FSC may initiate a grievance if they (1) have made a request for a reasonable accommodation on the basis of a documented protected disability and believe they have been wrongly denied that accommodation, or (2) alleges they have suffered discrimination because of their disability. Accommodation discussions could include, but not be limited to (1) whether the student is a qualified individual with a disability; (2) whether a student's documentation of a disability is adequate to determine/support accommodations; (3) whether the accommodations being requested are reasonable.

Initial Accommodation Plan Re-Evaluation

If a student disagrees with an accommodation decision, or believes they are experiencing discrimination because of a disability, the first step is to discuss this with Dr. Sandy Calvert, Office of Student Disability Services (SDS), Florida Southern College, Rogers Building 2nd Floor, 111 Lake Hollingsworth Drive, Lakeland, FL 33801, tel: (863) 680-4900; email: disabilityservices@flsouthern.edu. Students should notify SDS immediately or ideally no later than five (5) working days of discovering the need to reevaluate accommodations or explore the possibility of discrimination. This is so that, if there is any non-accommodation or discrimination happening, the college can take prompt steps to correct the situation. Often, clarification or resolution can occur in this initial stage. Allegations of discrimination will be investigated beginning within one (1) working day of this discussion and any modifications to Accommodation Plans will be submitted to appropriate College recipients within ten (10) working days of this Accommodation Plan Re-Evaluation. SDS will notify students of any unexpected or necessary time tables changes.

Informal Grievance

If resolution is not possible using the Initial Accommodation Plan Re-Evaluation process or if a student is dissatisfied with the outcome of the Initial Re-Evaluation, they may initiate an Informal Grievance. This Informal Grievance should be directed to Dr. Sandy Calvert, Rogers Building Room 244, Florida Southern College, 111 Lake Hollingsworth Drive, Lakeland, FL 33901, tel: (863) 680-4900, email:

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disabilityservices@flsouthern.edu, who has been designated to coordinate compliance efforts for students with disabilities.

- 1. An Informal Grievance may be filed in writing or verbally (by ZOOM) by a current student who believes they have not received reasonable accommodations or who allege discrimination-based Florida Southern College Students with Disabilities Internal Grievance Procedures 2023-2024 Page 3 October 2023 on a protected disability. The "complainant" (the reporting student or student initiating the Informal Grievance) will need to provide the following information:
- a. A clear and precise description of the complaint
- b. A statement regarding how the action is discriminatory or how the decision is unreasonable if it is a denial of a requested accommodation
- c. The name(s) of the person(s) (called "respondents") who are reportedly not providing accommodations or who are reportedly behaving discriminatorily against the person who filed the complainant
- d. A statement regarding how each respondent is responsible for not complying with an Accommodation Plan or for discrimination
- e. A statement of the requested remedy
- f. A statement as to whether witnesses or additional evidence are to be provided, if necessary
- 2. An Informal Grievance should be made by the reporting student within five (5) working days of her or him experiencing or discovering the alleged violation or within five (5) working days of the conclusion of an Initial Accommodation Plan Re-Evaluation.
- 3. An investigation will follow the filing of an Informal Grievance. The investigation will be led by Dr. Sandy Calvert or, if the allegations involve Dr. Calvert, Dr. Lauren Albaum, Vice President of Student Life, will assign a college officer to investigate the grievance (please see Formal Grievances, below). The investigation will be prompt, thorough, and equitable. In all cases, the investigation will involve conversations and explorations between the investigator and the complainant.
- 4. If appropriate, all interested parties will have the opportunity to provide witnesses or submit information relevant to the complaint.
- 5. A written or verbal Informal Grievance Outcome and a description of the resolution, if any, will be issued to the complainant promptly by Dr. Calvert, with a target time of no later than ten (10)working days after receipt of the Informal Grievance. Every effort will be made to complete the investigation expeditiously but the college reserves the right, in its discretion and based on external factors it may not be able to control, to extend the target deadline for the Informal Grievance Outcome if that will permit a more completely-resolved outcome. The complainant will be kept up-to-date on the progress of the investigation. If discrimination or a failure to provide reasonable accommodations is discovered, the Informal Grievance

Outcome will name the steps taken to promptly remedy this and to prevent its recurrence in the future, both toward the complainant and to others.

6. The Student with Disabilities Grievance Officer will maintain the files and records relating to the complaints for 7 years.

Formal Grievances

1. Under certain circumstances (please see below) the complainant can request a reconsideration of the investigation outcomes of the Informal Grievance. Request for reconsideration should be made in writing within five (5) working days of the complainant receiving the written Informal Grievance Outcome to Dr. Lauren Albaum, Vice President of Student Life, Rogers Building room 123, Florida Southern College, 111 Lake Hollingsworth Drive, Lakeland, FL 33801, tel: (863) 680-4902; email: lalbaum@flsouthern.edu.

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All Formal Grievances must be in writing and signed by the student. The Formal Grievance must contain: *The Initial Informal Grievance:

- a. A clear and precise statement of the initial complaint.
- b. A statement regarding how the initial action is discriminatory or how the decision is unreasonable if it is a denial of a requested accommodation
- c. The name of the respondents (the person(s) against whom the grievance is filed)
- a. A statement regarding how each respondent is responsible for not complying with an Accommodation Plan or for discrimination
- b. A statement of the initially-requested remedy
- c. The statements of any witnesses or evidence that were provided
- *Note: If the Informal Grievance was made to Dr. Calvert verbally, to assist the complainant, Dr. Calvert will offer to provide this portion of the grievance in writing to the student. If the student presented the Informal Grievance in writing, this can be submitted to Dr. Albaum to fulfill the above requirements.
- d. A description/copy of the Informal Grievance Outcome (provided to the student by Dr. Calvert)
- e. An explanation of why the Informal Grievance Outcome is unsatisfactory, and
- f. A request and the reasons for an alternative, desired remedy.

Reasons a student may appeal an Informal Grievance Outcome include (1) additional witnesses or information have been obtained that were not available during the Informal Grievance, or (2) there is evidence that the College did not follow its own policies and procedures. A written evaluation of and response to the complaint and a description of the resolution, if any, will be issued by Dr. Albaum and a copy forwarded to the complainant promptly, with a target time of no more

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than ten (10) working days after the Formal Grievance has been filed. Every effort will be made to complete the investigation expeditiously but the College reserves the right, in its discretion and based on external factors it may not be able to control, to extend the target deadline for the written determination of the investigation if that will permit a more completely-resolved outcome. The complainant will be kept up-to-date on the progress of the investigation. Additional procedures will be similar to those of Informal Grievances. If discrimination or a failure to provide reasonable accommodations is discovered, a written report will name the steps taken to promptly remedy this and to prevent its recurrence in the future, both toward the complainant and to others. NOTE: Any grievance filed AFTER APRIL 30 AND BEFORE AUGUST 30 of each year may require additional time for investigations, if respondents are absent from the college for the summer.

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Discretionary Decisions of Florida Southern College

FSC cares deeply about all students and works with each individual to support persistence to degree completion. To thoroughly investigate reports of inadequate accommodation or discrimination, and to put into place effective remedies if needed, the college may require more time than indicated above. However, it will always be FSC's goal to respond promptly and completely to such concerns. Additionally, if FSC learns from a third party about the potential need to evaluate accommodations or investigate discrimination, an appropriate college official may initiate contact with the student to explore these possibilities. However, the student is not required to reveal a disability unless the student is requesting accommodations and it is the student's right to determine if she/he wishes to request accommodations or an investigation.

False Accusations

If an investigation results in a finding that the complainant intentionally falsely and maliciously accused another of discrimination, the complainant will be subject to appropriate sanctions for "false accusations" under the Student Handbook and associated accountability procedures. The fact that no action is taken as a result of the complaint against the respondent does not mean that the complaint was not false or malicious. This should not deter students from reporting concerns about accommodations or discrimination and the college will always assume that such inquiries are made in good faith.

Retaliation and Reprisals

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No individual shall suffer reprisals or retaliation for truthfully reporting any incidents of discrimination, for making any good-faith complaints of discrimination, or for participating in any investigation of incidents of discrimination or perceived discrimination. Acts of retaliation and reprisal under these circumstances are strictly prohibited by the college. Reprisal and retaliation, either through direct actions or through a third party, will result in disciplinary consequences. Examples of retaliations or reprisals would include, but would not be limited to, the following kinds of conduct:

- Assigning low grades, changing work assignments, or refusing to cooperate with a person who has complained about discrimination
- Denying participation, membership, or relationship to a person who has reported or resisted discrimination
- Imposing physical, social, or emotional sanctions on a person who has reported or resisted discrimination
- d. The right of a student to a prompt and equitable resolution of the filed complaint will not be impaired by the complainant's pursuit of other remedies such as filing of an ADAAA complaint with the responsible federal department or agency. Simultaneous pursuit of multiple remedies could require the college to delay portions of investigation so as not to impede the investigations of other agencies.

The designated Office for Civil Rights Department of Education contact for Florida postsecondary institutions is:

Florida Southern College Students with Disabilities Internal Grievance Procedures 2023-2024 Page 6October 2023 Office for Civil Rights,

Atlanta Office U.S. Department of Education 61 Forsyth Street S.W., Suite 19T10 Atlanta, GA 30303-8927 Telephone: (404) 974-9406

Facsimile: (404) 974-9471 Email: OCR.Atlanta@ed.go

Professional Organizations

Students are encouraged to join the American Society of Clinical Laboratory Science (ASCLS) or the American Society for Clinical Pathology (ASCP) at a reduced student rate. These societies promote the medical laboratory science profession and provide opportunities for professional growth. Other organizations of interest are:

- American Association of Blood Banks (AABB)
- American Association for Clinical Chemistry (AACC)
- American Society for Microbiology (ASM)
- Clinical Laboratory Management Association (CLMA)
- American Association for Hematology

Information may be located via organization websites.

LRH General Policies

Clinical rotations are designed on the needs and requirements of the students and the laboratory.

The clinical rotations offered to our students during their internship include:

- Core Laboratory- located on 5D. Chemistry, Immunochemistry, Hematology Coagulation, Urinalysis, Point of Care Testing, and Specimen Processing
- * Microbiology- located on 3 NORTH. Microbiology and Molecular Diagnostics
- ❖ Anatomical Pathology located on 5D. Flow Cytometry, Molecular Diagnostics
- Phlebotomy experience is offered through our outpatient draw sites (ambulatory clinic sites).
- ❖ In addition, our laboratory encourages students to participate in professional topic presentations, as a means of fulfilling any additional requirements.

Schedules are provided to the student prior to their rotation through the laboratory. All attempts will be made to accommodate individual needs.

Dependability and reliability are important characteristics of laboratorians, and students are expected to be present and on time. Excessive absenteeism will be discussed with the school's Program Director.

Work Place Policy:

It is the policy of Lakeland Regional Medical Health that students do not replace the scientist at the workplace. When students are learning or performing procedures, they will be under the direct supervision of a scientist or instructor.

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Teach Out Plan:

In the event the Florida Southern College Medical Laboratory Science Program's ability to provide educational support to its students is unexpectedly closing due to natural or unnatural disasters or permanent closure, every effort will be made to assist affected students, faculty, and support staff. Adjustments for students will be made to guarantee clinical rotations, and graduation. If the closure of the program were to occur during the first three years in the program, those students would be directed to alternative MLS programs or to completion of the general B.S in Biological Sciences. The fourth year students, who would be completing clinical rotations, would be allowed to finish the rotation at the hospital with the approval of the facility.

The academic semester 2020 brought us many challenges when facing the COVID-19 pandemic. In March 2020, the students returned to their homes and the campus remained closed for the semester. All classes and labs were offered virtually through applications such as Zoom and Microsoft Teams. At that time, our students were assigned to begin their clinical rotations in the phlebotomy course, but they were postponed. Students were provided an "incomplete" as a grade for the course until the required work was completed in the Fall semester 2020. The phlebotomy clinical rotations were successfully completed in September 2020, and the students received their final grade to complete the course.

In the event that we face a similar situation, all classes and labs will be taught through the Canvas portal.

In the event that students could not attend hospital clinical rotations, clinical instructors and faculty will arrange for laboratory simulations to provide content to meet learning objectives of the clinical practicum experience. Online sessions will be provide trough Zoom meetings for the completion of the program.

<u>Intentional closure of the program</u>: Should the program be terminated intentionally, information will be communicated to all students immediately.

- In case of disaster the college will inform students of a plan for continuation of their education as soon as that information is available.
- NAACLS will be notified and a teach out plan will be provided to them within 30 days of the official announcement of program closure. Florida Southern College will continue to provide the necessary resources and support to the Medical Laboratory Sciences students in meeting all requirements.

Protocols for Program Closure

In the event of program closure, notifications will be made to administration, faculty, support staff, and students, as soon as possible, regarding program closure. Program advising will be provided to appropriate students regarding suitable options to complete a comparable program of study at another academic institution.

Prospective students:

- In the case of permanent closure students will be informed that the program will not take a new cohort due to program closure.
- In the case of a natural or unnatural disaster the program will work with other laboratory science programs to continue education and training until training can resume at the college.
- Students will be counseled in applying to other local programs.
- Program closure information will be posted on the Florida Southern College website.

Current students:

- Students will be informed of program closure.
- Florida Southern College will continue to maintain open communication with all currently-enrolled students
- In the case of a natural or unnatural disaster the program will work with other laboratory science programs to continue education and training until training can resume at the college.
- In the event of a mandated permanent closure currently enrolled students will be allowed to complete program. Students who are currently completing clinical rotation experiences are guaranteed completion of internships as scheduled.
- Currently-Enrolled Students will receive didactic and clinical instruction under the curriculum plan that is currently in place.
- The Program Director will be designated to clear students applying for the certification exam.

Faculty and Staff/Program of Study

- Florida Southern College will maintain a sufficient number of qualified faculty members to continue to meet the instructional needs of the program.
- Minutes of faculty meetings, and committee meetings will continue to be filed and available for review
- Program of study will continue to consist of didactic and clinical/simulation learning experiences
- All current records will be maintained in a secure manner to prevent loss, destruction or unauthorized use. (Faculty records, faculty meeting minutes,

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- college catalogs, mission and goals, affiliation agreements, curriculum and course outlines, program evaluation, etc.)
- The Program Director will continue to ensure that clinical facilities utilized for clinical experiences are appropriate for the level of student learning, achievement of course objectives and student safety.

Guarantee of Clinical Assignment

Florida Southern College and Lakeland Regional Medical Center anticipate having six students maximum seeking placement for clinical practicum. The number of students will never exceed the number of positions available. However, in the event that more than six students are waiting for clinical placement, students will be prioritized according to GPA in the MLS courses. Students who were not placed will be assigned to clinical sites by the end of calendar year in which they were eligible for clinical rotations.

Clinical Practicum Failure Policy

Students must complete Medical Laboratory Sciences Practicum MLS 4800 for each clinical rotation with a grade of "Pass" to receive credit for the course. At the end of the course, the student will receive a letter grade. A grade of >70% is needed for all students to complete their clinical practicum.

Course Grade Scale: A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69 %, F: 0-59%, or if your lab grade falls below 50% at the end of their clinical practicum.

Grading Policy for Clinical Practicum

- Weekly Assessment of Performance (5% of grade)
- Performance Objective Evaluation (10% of grade)
- Final Assessment of Section Rotation (30% of grade) (Clinical Rotations Checklist Evaluation)
- Rotation Quizzes/Clinical Cases/Review Assignments-Examinations (15% of grade)
- Final Rotation Examination (20% of grade) (Written and Practical Exams at the end of each clinical rotation)
- Cumulative Final Exam (20 % of grade) (Cumulative exam at the end of your clinical experience).
- Students are required to pass the Final Cumulative exam in order to pass the Clinical Practicum Course. Students to successfully pass the cumulative exam to pass the MLS program. After successfully passing this exam, the student will be awarded a certificate of completion and will be eligible for the ASCP-BOC or, American Medical Technologist (AMT) exam.

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Failure to achieve a passing grade in any clinical practicum rotation will result in a student action plan and automatic probation with the program director. The program director will evaluate if the student does not demonstrate appropriate entry level skills, and affective skills after probation time, and the student will receive a grade of F for the semester. The student will be subject to FSC academic policies and procedures that result from course failure.

COUNSELING

Students will meet regularly with the MLS faculty, when grades start to fall below 75%, appointments will be made to mentor students. The program faculty will assist give the student direction in order or provide guidance to meet with success specialist. All conversations concerning personal problems between the student Program Director, Faculty, or Clinical Liaison are privileged and will be treated as confidential.

CLINICAL ROTATION AGGREMENT

In order to receive an MLS degree from Florida Southern College, all Medical Laboratory Science students are required to complete clinical rotations experience in their medical laboratory field. The following regulations must be followed:

The MLS student will:

- 1. Pass all required coursework and necessary examinations in order to proceed to his/her clinical rotation experience at Lakeland Regional Medical Center (LRH).
- 2. Be available to complete clinical rotation experience within your clinical rotation schedule for the particular clinical laboratory.
- 3. Complete a 15 week practicum is 40 hours per week, Monday through Friday. During the clinical rotation, the typical schedule will depend on the clinical department. For Main Clinical Lab the typical schedule will be 6:00am to 2:30pm; for Microbiology will be 7:00am to 3:30pm; for Oneblood (Blood Bank) will be 8:00am-4:00pm. However, students may be asked to modify the schedule to complete certain laboratory experiences. In the event a student is unable to complete an 8 hour shift anything less than 6 hours is considered an absence and students must be made up (in the department that was affected) prior to graduation in order to receive a passing grade. The last week of April will be schedule for students that need to complete their 8 hours shifts. The cumulative final exam will not be assigned until the

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<u>completion of the required hours of clinical rotations.</u> The need for make-up time is at the discretion of the program director and clinical faculty.

- 4. Understand that clinical rotations experience is served with no monetary compensation to the student, and there is no contract to hire expressed or implied.
- 5. Report and submit weekly/monthly Clinical Rotation Timesheet according to instructions given by the Program Director. Failure to submit written verification of hours and meet with the instructor on a weekly basis will result in unsatisfactory progress. Financial aid and the student's continued participation in the practicum clinical rotation experience could be affected.
- 6. Provide the College and affiliate facility with immediate notification of any injury occurring at the laboratory training site.
- 7. Adhere to all LRH Policies under LRH General Policies outlined in the MLS handbook.
- 8. Adhere to all LRH standards of personal appearance, attendance, and professional conduct outlined in the MLS student handbook and LRH Orientation handbook.
- 9. Notify Program Director and training site instructor immediately if any absence from training occurs.
- 10. Remain at the clinical rotation-training site during set schedule hours. Under no circumstances is the student to leave without contacting the Program Director or Clinical Faculty.
- 11. Adhere to LRH dress code or unless otherwise instructed by the Program Director, included your LRH Badge ID at all times.
- 12. Adhere to LRH customer service and culture of care.
- 13. Adhere to HIPAA and confidentiality of LRH patients.
- 14. Understand that discontinuance of clinical rotation practicum by the training site will result in an automatic counseling session with the Program Director. An evaluation of student performance and commitment to clinical rotation will be made.
- 15. Adhere to State of Florida Guidelines:

Students are licensed as trainees by the State of Florida, and grounds for disciplinary action against clinical laboratory personnel as stated in Florida Statute 483.825 (listed below) will be grounds for disciplinary and/or legal action against the student.

The following constitute grounds for disciplinary actions:

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- a. Attempting to obtain, obtaining, or renewing a license or registration under this part by bribery, by fraudulent misrepresentation, or through an error of the department or the board.
- b. Engaging or attempting to engage in, or representing himself as entitled to perform, any clinical laboratory or category of procedures not authorized pursuant to his license.
- c. Demonstrating incompetence or making consistent errors in the performance of clinical laboratory examinations procedures or erroneous reporting.
- d. Performing a test and rendering a report thereon to a person not authorized by law to receive such services.
- e. Having been convicted of a felony or any crime involving moral turpitude under the laws of any state or of the United States. The record of conviction or certified copy thereof shall be conclusive evidence of such conviction.
- f. Having been adjudged mentally or physically incompetent.
- g. Violating or aiding and abetting in the violation of any provision of this part or the rules adopted hereunder.
- h. Reporting a test result when no laboratory test was performed on a clinical specimen.
- i. Knowingly advertising false services or credentials.
- j. Having a license revoked, suspended, or otherwise acted against, including the denial of licensure, by the licensing authority of another jurisdiction. The licensing authority's acceptance of a relinquishment of a license, stipulation, consent order, or other settlement, offered in response to or in anticipation of the filing of administrative charges against the licensee, shall be construed as action against the license.
- k. Failing to report to the board, in writing, within 30 days if action under subsection (10) has been taken against one's license to practice as clinical laboratory personnel in another state, territory, or country.
- l. Being unable to perform or report clinical laboratory examinations with reasonable skill and safety to patients by reason of illness or use of alcohol, drugs, narcotics, chemicals, or any other type material or as a result of any mental or physical condition. In enforcing this paragraph, the department shall have, upon a finding of the secretary or his or her designee, that probable cause exists to believe that the licensee is unable to practice because of the reasons stated in this paragraph, the authority to issue an order to compel a licensee to submit to a mental or physical MLS Student Handbook

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examination by physicians designated by the department. If the licensee refuses to comply with such order, the department's order directing such examination may be enforced by filing a petition for enforcement in the circuit court where the licensee resides or does business. The department shall be entitled to the summary procedure provided in s.51.011. A licensee affected under this paragraph shall at reasonable intervals be afforded an opportunity to demonstrate that he or she can resume competent practice with reasonable skill and safety to patients.

m. Delegating professional responsibilities to a person when the licensee delegating such responsibilities knows, or has reason to know, that such person is not qualified by training, experience, or licensure to perform them.

A student on probation may be dismissed from the Medical Laboratory Science program if the student fails a subsequent didactic and/or practical work area. As a result the student will not receive a BS degree in Medical Laboratory Science, nor be eligible for the ASCP Board of Certification (BOC) or American Medical Technologist (AMT) examination.

Florida Southern College will:

- 1. Make on-site visits or phone calls to evaluate the student's progress.
- 2. Give final grade and earned credits upon completion of the program. Grades of "P" for "Pass" or "F" for "Fail" will be awarded in accordance with the Pass/Fail Policy used for other resident subjects offered by the College.

Lakeland Regional Health will:

- 1. Provide supervision and training for this portion of the MLS student's education; comply with state and federal labor laws and provide working conditions which will not affect the health, safety or morals of the student.
- 2. Students are not responsible for service work in the laboratory and cannot replace an employee. Work performed by students during their time during practicum must be checked by the medical laboratory scientist. If students wish to perform service work outside of regular academic hours, it is noncompulsory, paid, supervised on site, subject to employee regulations and based on departmental staffing needs.
- 3. Give the student training opportunities for the minimum number of hours agreed upon while reserving the right to discharge student for just cause upon notification to the College.

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- 4. Notify the College of injury occurring at the facility site, provide first aid treatment to student requiring such care, but is not obligated to furnish any other professional service to the student.
- 5. Be required to afford the student course related training opportunities that resemble the on-the-job duties of a regular employee whenever possible to obtain the entry levels skills as a Medical Laboratory Science.
- 6. There is no formal job placement service at Lakeland Regional Health. It is the student's responsibility to find employment following graduation.
- 7. Complete and return written evaluation forms at the conclusion of the clinical rotation experience-training period.

UNDERSTAND MY ROLE AS THE STUD COLLEGE AND LAKELAND REGIONAL	EREBY AGREE TO THE TERMS OUTLINED AND DENT AND THE ROLES OF FLORIDA SOUTHERN HEALTH AFFILIATE. I UNDERSTAND THAT FAILURE TEMS 1 THRU 14 MAY RESULT IN MY TERMINATION CIENCE PROGRAM.
Signature of Student	Date
Maridaliz Rodriguez Rosado, Ph.D, <i>N</i>	MLS(ASCP), MB(ASCP) Date

General Conduct

MLS Program Director Florida Southern College

Students are expected to read and adhere to the LRH Orientation Handbook and adhere to all policies detailed in this document.

Students are expected to demonstrate responsible professional behavior at all times. Students must be aware and recognize that their courses are being conducted in the professional environment of a hospital. Nonprofessional conduct such as rudeness, excessive noise, throwing items, verbal or physical fighting, etc. is totally inappropriate and subject to disciplinary measure up to and including suspension or dismissal.

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Examples of infractions of conduct include:

- Reporting to work under the influence or using any intoxicant and/or illicit drugs.
- Possession of firearms, fireworks, dangerous weapons, alcohol and/or illicit drugs.
- * Refusal to accept and or/perform a reasonable work assignment.
- Insubordination.
- Violation of safety rules and practices.
- Use of abusive, vulgar or threatening language.
- Nonprofessional conduct.
- Interfering with the work of other employees/students.
- Acceptance of gratuities.
- Unauthorized solicitation.

Interaction with Patients and Visitors

Every patient is an important person in the hospital. Patients depend upon medical laboratory scientists and technicians to provide care in a professional manner. The scientist's primary patient contact is in the role of phlebotomist. Guidelines for patient and visitor interaction will be covered in the phlebotomy course.

Interaction with Professional Personnel

- ❖ It is important to demonstrate proper respect and conduct when dealing with all health care professionals and other hospital employees, in person and on the telephone.
- ❖ It is important to demonstrate proper respect and courtesy to instructors and guest lecturers. These individuals will help you gain information and insight about the profession.
- It is important to demonstrate proper respect and conduct to laboratory managers, supervisors, scientists and technicians on clinical rotations and phlebotomy rounds.
- ❖ Do not allow yourself to be drawn into an argument, particularly in the presence of patients and/or visitors! If differences of opinion arise, advise individuals to discuss the matter privately with supervisory personnel, if necessary.
- ❖ Do not agree to do anything you do not know how to do or are not authorized to do. If you are questioned about laboratory requests, advise the individual to consult the specific laboratory division.

Interaction with Classmates

Professional behavior is expected of all students whether they are in the student laboratory or the clinical lab setting.

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Courtesy, respect and patience are important qualities when interacting with classmates.

Breaks and Lunches

During the clinical rotation day, students will be allowed a 10-minute break during the morning and/or afternoon depending on the rotational department and one 30-minute break. Students are to follow the break protocol of the department. Students must have the permission of the department Teaching Supervisor (Department Team Leaders) at the beginning of the rotation to find out their time allotments. When leaving the department for any reason, you must inform your instructor(s) and program director.

NOTE: EATING, DRINKING AND LIKE-SUBSTANCES THAT PROVIDE DIRECT AND INDIRECT HAND-TO-FACE CONTACT (e.g. chewing gum, application of cosmetics, application of lip balm, insertion or removal of contact lenses, use of personal cell phones or electronic devices) ARE STRICTLY PROHIBITED IN THE TECHNICAL AREAS OF THE LABORATORY. Smoking is prohibited on the LRH campus.

Attendance & Time Off

Students must be on time for all scheduled classes and laboratory rotations. Students are required to complete a time sheet indicating in and out times for each day of the practicum rotation. Time sheets are signed by the instructor and submitted to the Program Director at the end of each month.

Holidays and Vacations: Students will be entitled to all official hospital and school holidays in the same manner as they apply **to laboratory personnel**. Students are also given a Fall break during the Fall semester and a Spring break during the Spring semester aligning with Florida Southern College calendar.

General Time Off: In addition, students are allotted a maximum of 3 days (24 hours) of general time to be used as sick time or scheduled leave. For scheduled time off, a written request must be submitted and approved by the area supervisor and clinical coordinator. Any missed time beyond the allotted 3 days must be made up (in the department that was affected) prior to graduation in order to receive a passing grade. Attendance will be carefully monitored and tardy time or leaving early will be deducted from the allotted 3 days. Students are expected to be in their assigned rotation and ready to learn at the start time specified for that rotation.

Illness Related Absences: Should an unscheduled absence, or "calling in sick" become necessary, please notify the lab by calling (863) 687-1100 ext. 1204 at least two hours before you are scheduled to report. Identify yourself as a student, and ask to be transferred to the Charge Tech or Team Leader of the assigned rotation and report your absence to them. A message must be left with the clinical

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<u>coordinator at (863) 687-1100 ext. 3179.</u> A copy of your message will be posted with the Program Director and the rotation department in which you are scheduled. You MUST call in any time you will be absent unless prior approval was obtained.

Inclement Weather: In the event of inclement weather, the student must call the lab and speak to the Charge Tech or Team Leader of the assigned rotation at least $\frac{1}{2}$ hour before the scheduled arrival time. Emergency notification from the LRH Intranet in regards to inclement weather do apply to students.

Tardiness

- A. Students are expected to report to the lab on time, as scheduled.
- B. Students are expected to stay onsite until dismissed by the bench instructor for the day.
- C. Asking the department supervisor to leave early is not tolerated and will follow the same protocol as chronic tardiness.
- D. Tardiness will be reflected on the professional attributes section of the performance evaluation form and will be incorporated into the overall grade for each rotation.
- E. The time missed for tardiness may be made up at the discretion of the clinical coordinator.
- F. Chronic tardiness will not be tolerated and will be dealt with in the following manner:
 - a. The Program Director will issue a verbal warning to the student. Documentation of this warning will be made in the student's file.
 - b. If tardiness continues, the Program Director will issue a written warning to the student. The student will be placed on probation and documentation will be made in the student's file.
 - c. If tardiness continues after the probation status has been issued, termination from the program will occur.

Service Work

Students are not responsible for service work in the laboratory and cannot replace an employee. Work performed by students during their time during practicum must be checked by the medical laboratory scientist. If students wish to perform service work outside of regular academic hours, it is noncompulsory, paid, supervised on site, subject to employee regulations and based on departmental staffing needs.

Parking

Student parking is by the stadium entry located next to the laundry building. Park on the grass/dirt area. No vehicle identification is required.

If you have any security questions, contact the Safety & Security Department main number at ext. #1221 (687-1221). The Security Supervisor may be reached at ext. 7222

Dress Code

- ❖ Jeans, cargo pants, capri pants, sweat shirts or sweat pants, tank tips, midriff or halter tops, and cut off shorts are NOT acceptable. Torn, faded, wrinkled or tight clothing of any type is unacceptable. Lab coats may NOT be worn over inappropriate clothing.
- Tee shirts with writing and logos are not permitted
- Scrubs are permitted- however, solid black, white, gray, peach brown or red scrubs are not permitted.
- Long sleeved shirts may be worn under scrubs if they match the uniform color.
- Conservative footwear is required. Shoes must be flat and have closed toes for safety purposes. Clean tennis shoes or sneakers are acceptable but must be of the leather or vinyl type. Hiking boots, sandals or cloth/canvas shoes are not appropriate for the laboratory.
- All appropriate undergarments and hygiene are a must. Jewelry and perfumes should be kept to a minimum. Long hair should be tied back for safety purposes. Long or dangling jewelry must not be worn for safety reasons. No hats or caps of any type may be worn, except for religious reasons.
- Tattoos and exposed piercings must be covered and acrylic nails are not to be worn in the laboratory
- Students must wear a hospital identification badge during scheduled days at the hospital. These will be provided to students during orientation.
- ❖ Students will be furnished with lab coats to wear as protection while working with patient specimens. These lab coats are to be removed when leaving the laboratory for other hospital business.

Program officials, faculty, instructors or lab managers can enforce the dress code. Students are expected to maintain a professional appearance at all times. Failure to conform to the dress code may result in the student being sent home to change into appropriate attire. A verbal warning will be given to the student with documentation on the performance evaluation. Repeat offenses of the dress code policy will result in written warning and disciplinary action up to and including dismissal from the program.

Required Information

It is the responsibility of the affiliate school/college/university to ensure the student has completed both a criminal background check as well as a 10 panel drug screen.

Customer Service and our Culture of Caring

Lakeland Regional Health was named one of thirty six recipients of the 2014 Gallup Great Workplace Award, which recognizes companies throughout the world who have achieved engagement excellence.

We Promise To:

- Treasure all people as uniquely created
- Nurture, educate and guide with integrity
- Inspire each and every one of us to do our very best

With These Promises We:

- Care for Self
- Care for our Patients and Families
- Care for Others
- Care for Community

Cultural Diversity and Sensitivity

We all differ from one another and as students in the healthcare industry; our differences can become more important due to the personal nature of the services we provide. As we work with employees and patients and their families, we need to be aware of the different beliefs and practices and be willing to create and maintain an environment that is respectful of all people.

When dealing with patients, co-workers and hospital staff please remember to always:

- Greet each person warmly and genuinely
- Display positive body language
- Offer assistance to anyone that needs your help
- Maintain confidentiality
- Recognize the diversity of your customers

Non-Discriminatory Policy

Discrimination on the basis of race, color, religion, sex, sexual orientation, gender identity or expression, national origin, age, physical or mental disability, veteran status, genetic information, or any other basis protected by federal, state, or local law is prohibited and will not be tolerated at Lakeland Regional Health or the learning and working environment. Harassment is aggressive pressure or intimidation. Harassment includes unwelcome or unsolicited verbal, non-verbal, printed, electronic mail, or physical conduct which substantially interferes with an employee's or a student's performance or which creates an intimidating, hostile, or offensive environment. Lakeland Regional Health will promptly, thoroughly, and fairly investigate every issue that is brought to its attention in this area and will take disciplinary action, when appropriate. Sexual Misconduct and Inappropriate Workplace Conduct. Students must abide by FSC/LRH Code of Conduct.

If an MLS student or faculty member feels as if he or she has been discriminated against or observes an act that may be interpreted to be discriminatory, he or she has a duty to report it to the MLS Program Director or Talent Division.

Diversity, Equity, and Inclusion Policy

The faculty in the Medical Laboratory Sciences Program are committed to the following:

- 1. We firmly state that **Black Lives Matter**, we will promote **anti-racism** on our campus and in the wider community, and we will step up and speak out against racism.
- 2. We support the LGBTQIA+ community, we will work to promote an atmosphere of tolerance and respect on our campus, and we will step up and speak out against all forms of discrimination and harassment.
- 3. We are a community of continuous learners and we commit to on-going training to ensure **inclusivity** in our classes and on our campus.
- 4. As a faculty, we are committed to incorporating discussions in our classes about the contributions of **Black**, **Indigenous**, **and People of Color (BIPOC)** and those of ethnic and religious minorities to the sciences. We will work to provide opportunities to our students to hear from a diverse population of scientists.
- 5. We will work to create support systems for minority students and first-generation college students. This will include guidance by peers, faculty, staff, alumni and other community members to help students make progress along their academic and career journeys. We will provide equal opportunities for all students for access to internships and research experiences, while also bringing to the forefront opportunities only available to minorities and women in STEM.
- 6. We are aware of the economic struggles some of our students face, and we will work to reduce economic burdens at the departmental level.

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7. We promote a culture of compassion in our classrooms, labs, and in our student organizations. We actively strive to know our students as individuals so that all students can be comfortable and confident to seek help if necessary. We may not share all your experiences, but we will listen and do everything we can to help you be successful.

Professionalism

All Florida Southern College MLS students and Faculty members are expected to behave in all interactions with every patient, visitor, and member of the healthcare team with professionalism. All other program personnel of Lakeland Regional Health will be required to follow all personal appearance, hygiene, and behavior expectations encompassed in the professionalism policy. Specific requirements and more information can be found under the Department SOP manuals. MLS students will be evaluated on a program level based on ability to comply with institutional and program professionalism

Student Privacy Rights

Program faculty maintains confidentiality of all Florida Southern College MLS students program records. An appointment to review a student's personal program file may be requested by the student at any time. Any inquiry with regard to a student's program file is referred directly to the student. The Family Education Rights and Privacy Act (FERPA) governs the confidentiality of student records. Records are defined as all records, files and data directly related to students that are created, maintained, and used by FSC will be kept by the Admissions records and registration department. If a parent, guardian, spouse, or other interested party contacts Faculty to discuss or inquire about academic matters or any other matters regarding a student, that Faculty should not discuss or divulge potentially privileged information. Rather, the Faculty should do the following: (1) refer the inquiring party to the appropriate academic Dean who will determine if the student has provided a waiver to disclose academic information (and to whom); and (2) explain to the inquirer that under federal law (specifically, the Family Educational Rights and Privacy Act, or FERPA), Florida Southern College cannot disclose privileged information until it has been determined that a FERPA waiver has been signed by the student. If the Faculty wishes to engage in a conversation with the inquirer and does not have access to the information regarding the student's waiver status, he or she should e-mail the appropriate academic Dean to explain the situation and determine the student's waiver status of student before engaging in any such conversation or communication with the inquirer.

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SAFETY

MLS students will receive a LRH Orientation Handbook, including safety policies of the hospital and laboratory, and a tour of the laboratory safety features with the laboratory safety officer or designated staff member. Student are required to complete a safety checklist and safety courses in MediaLab. Electronic copies of their safety certificates will be maintain by the Program Director for student records.

HIPAA

The Health Insurance Portability and Accountability Act of 1996 is a multifaceted piece of legislation covering three areas:

- Insurance Portability: Portability ensures that individuals moving from one health plan to another will have continuity of coverage and will not be denied coverage.
- ❖ Fraud Enforcement (Accountability): Significantly increases the federal government's fraud enforcement authority in many different areas.
- Administrative Simplifications: Ensures system-wide, technical and policy changes in healthcare organizations in order to protect patient's privacy and confidentiality of identifiable protected information (PHI).

A medical laboratory scientist has the moral, ethical, and legal responsibility to ensure the confidentiality of patient information. This means that discussion of patient information will only involve authorized personnel, at the appropriate time, and in a private place. All information should be discussed in a professional manner. Be particularly careful not to discuss patients in elevators, halls, the cafeteria or other public places where patients, relatives, visitors and other hospital employees may overhear the conversation.

Examples of infractions of confidentiality include:

- Unauthorized possession of confidential records or unauthorized use of hospital information systems.
- Disclosure of information contained in confidential records including all lab reports and medical records.

The Consequences of Breaking a HIPAA Rule

❖ Civil penalties can result in fines up to \$100 for each violation per individual. That means if the hospital releases 80 patient records, fines could total more than \$8,000. The annual limit per person for violating an identical requirement is \$25,000.

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Criminal penalties for knowingly disclosing PHI may include large fines as well as jail time. Criminal penalties increase as the seriousness of the offense increases.

Confidentiality and privacy mean that patients have the right to control who will see their protected health information (PHI). Communication about patient health information should be limited to those who need the information in order to provide treatment, payment, and healthcare operations.

Environment of Care

Emergency Preparedness

As a hospital, we must ALL be prepared to handle all sorts of emergencies. An emergency situation should be called to the operator by dialing "55". Identify yourself and give the operator all pertinent information as well as the exact location of the emergency. The operator will announce the emergency code with the location using the overhead page. This will occur several times until the "all clear" has been confirmed.

Emergency Codes

- ❖ CODE 1 Emergency code for a potential child or infant abduction. All staff need to search their departments, paying special attention to bathrooms, closets and stairwells. They should also keep their eyes and ears open for suspicious activities, such as persons walking quickly with an infant or a large bag. Any suspicious activity should be reported to Safety and Security, extension # 1221.
- ❖ CODE 2 Called when there is a community disaster and we are receiving disaster victims. Your role in this emergency is to remain in the laboratory and follow all instructions from the designated supervisor (charge, team leader).
- ❖ CODE 3 Suspected fire/smoke. Respond the same as with CODE 3 CONFIRMED if the fire is on the same floor, the floor above or below your present location. A CODE 3 ALL CLEAR or CODE 3 CONFIRMED will be announced by the hospital operator when the situation has been further investigated.
- ❖ CODE 3 CONFIRMED Smoke or fire confirmed by the fire response team. Follow the steps of SAVE and PASS if in immediate department. All hallways in the hospital are cleared and all doors, windows and vents closed. Exits are monitored and visitors are calmly asked to remain in the area. All elevators are not to be used.
- ❖ Active Shooter- Active shooter in the building. Take the following steps:

- Run: evacuate the area/department/facility if there is an accessible, safe evacuation route.
- Hide: If unable to evacuate, hide out of the shooter's view. Silence all phones, radios, etc. Lock and barricade doors if necessary.
- Fight: Take action against the shooter as a last resort and only when your life is in imminent danger (shooter engages you). Attempt to disrupt or incapacitate the active shooter by acting as aggressively as possible against him or her, such as throwing items, yelling, improvising weapons. Mentally focus and commit your actions to survive.

Team Codes

- CODE 333 Evacuation or relocation of patients, visitors and staff is necessary. Employees follow the Emergency Preparedness Plan for assignments or evacuation or relocation process.
- CODE 51- Missing Adult Patient Alert.
- CODE 3 DRILL Follow the steps of SAVE and PASS if the RED fire blanket is located in your immediate area.
- CODE 5 Announced when Safety and Security assistance is required in subduing a disorderly or violent patient, visitor or employee on a short term emergency basis.
- CODE 5 BACKUP Security and other trained hospital staff immediately respond to the announced area to assist or intervene as needed.
- CODE 13 Confirmed in a hostage situation. Upon hearing the code, everyone should remain calm, report to your assigned area and wait for further instructions. Do not go to the incident location.
- CODE 14 Called to alert the Trauma Team that a trauma patient has arrived or is expected in the Emergency Department. The Laboratory is also alerted to a trauma alert.
- ❖ CODE 55 Chemical spill. Keep away from the immediate area and contain the spill if possible (do not attempt to clean it up). Identify the type of chemical spill and dial extension 55 for the Chemical Response Team. Staff complete an incident if an exposure occurs. Review the SDS locations.
- CODE 6/66- Severe Weather
- CODE 77 Bomb threat. Stay calm, do not discuss with the public. Call extension 1221 to report anything suspicious.

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- ❖ CODE 99- Cardiac & Respiratory Arrest (CODE 44 for pediatric). These emergencies may occur anywhere in the hospital, to a visitor, patient or fellow employee. Quickly assess the person then activate the code by dialing extension 55. Provide the operator with the code situation and location. The Code Team from the Critical Care Units will respond.
- Code 100- Any physician in house, is called when an emergency situation arises and any physician in the building and a physician is needed for quick assistance.
- Code 100 Special- Physician of special type.

Fire Safety

Basic steps for fire safety:

- ❖ Be sure to observe the NO smoking policy. There are designated areas outside of the hospital for smoking.
- Be observant and report any unsafe conditions immediately.
- ❖ Keep all fire and smoke doors clear- do not block them.
- ❖ All storage areas must have items at least 18 inches from the ceiling.
- Use good electrical safety practices.

In Case of Fire

- ❖ S = SAVE the patient, visitor or employee
- ❖ A = Keep people away from the area and pull the nearest Fire ALARM. Dial 55 and tell the operator there is a CODE 3.
- ❖ V = VENTILATION. Smoke and fire generated gases cause the majority of fatalities. Close all doors to contain the fire, smoke and gases.
- ❖ E = If the fire is small, locate the nearest fire EXTINGUISHER and_attempt to extinguish the fire by following the steps of PASS

PASS

- ❖ Pin, when you bring the extinguisher to the scene, pull the locking pin
- ❖ Aim the extinguisher nozzle at the base of the flame
- Squeeze the extinguisher handles together
- Spray or sweep from side to side of the fire. Evenly coat the fire.

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General Infection Control Guidelines

All students need to follow caution during their clinical activities. These include:

- Compliance with hospital and department specific dress code requirements including PPE equipment while in the laboratory.
- ❖ Avoid touching eyes or mouth during specimen and patient contact.
- ❖ No eating, drinking, applying make-up or personal hygiene products in the laboratory or where patient activities or contact with contaminated equipment or surfaces occur.
- Compliance with Hospital guidelines for Standard Precautions and Safety.
- ❖ If you are ill, or present with a fever, consult with laboratory before coming to work. The laboratory office phone # is 1-863-284-1871.
- If you should have a blood borne pathogen exposure (needle stick, mucous membrane exposure) report immediately to your instructor/supervisor for the proper procedure.

Hand Hygiene Procedure

Hands must be washed with the hospital approved anti-microbial agent.

- ❖ Turn on hot and cold faucets to obtain warm water
- Place hands under the water stream and thoroughly wet hands
- Dispense liquid antimicrobial soap on the palm of the hand
- ❖ Vigorously rub hands together, covering all surfaces, for at least 20 seconds
- * Rinse hands under stream of water
- Dry hands thoroughly with paper towel
- Turn off faucets with paper towel and open door with dry paper towel

If hands are not visibly soiled, an alcohol based hand rub may be used for routinely decontaminating hands

- Dispense antiseptic solution together, covering all surfaces including nail and skin junctures
- ❖ Allow hands to air dry- approximately 15 to 25 seconds
- Follow with an approved moisturizing lotion

Waste Disposal

Waste disposal in the Laboratory is accomplished with the following receptacles:

- ❖ Biohazardous or Biomedical Waste- biomedical waste, except for sharps, These are packaged and sealed in red bags. They will have the biomedical waste symbol.
- ❖ Sharps- substances that can poke or cut the skin. All sharps should be handled and disposed of carefully. All sharps for disposal are placed in approved puncture resistant sharps container. It is clearly labeled and is considered full when it reaches the ¾ level.
- Green Lined Receptacle- re-cycled material.
- Clear Bag- everything else. See guidelines in the laboratory.

Bloodborne Pathogen Exposure Management

See Appendix for the full policy and related documents. All documentation must be fulfilled according to LRH policy. In addition, the Program Director will be responsible for all documentation and notification of required in-house personnel, along with documentation and notification to the MLS program at FSC.

Other General Safety Guidelines for the Laboratory

- ❖ The dress code must be followed at all times, including the use of PPE while at the bench.
- Head phones are not to be used while at the bench.
- Use gloves when handling blood, biological specimens, and hazardous chemicals or reagents.
- ❖ Universal barrier precautions (personal protective equipment or PPE) are to be used when handling patients and biological specimens, including human blood and diagnostic products made from human blood.
- Biological safety cabinets will be used for blending, sonicating, and vigorous mixing.
- ❖ Work areas are to be disinfected according to laboratory procedures before and after working at the bench, and any other times as needed.
- ❖ Take precautions when handling needles. Do not bend, break, recap or remove needles from disposable syringes. All sharps must be placed in puncture resistant containers.
- Safety goggles must be worn when working with strong chemicals and when splashes are likely to occur.
- Spills must be wiped up promptly and appropriately for the type of spill. Dispose of contaminated materials according to laboratory policy.

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- Avoid tasting, smelling or breathing any chemicals. Mouth pipetting is strictly prohibited.
- Manufacturer's instructions and laboratory procedures must be closely followed when operating equipment. Handle all equipment with care.
- ❖ Report any broke or frayed electrical cords, exposed wires or damaged equipment.
- Broken glassware must be discarded into the appropriate container.
- Visitors are not allowed in the laboratory.
- ❖ Any accident must be immediately reported to the instructor.

Medical Library

During your clinical experience at LRH, you are granted limited library privileges in the Medical Library. The library is located on the second floor between the B Wing and M Wing, and is open from 8:00 am to 4:30 pm Monday through Friday. During this time a librarian will be available to assist you. Please follow these guidelines when using the library:

- Books and periodicals are only available in the library for your research and review
- Use of computers is permitted, however, priority to use the computers is granted to LRMC employees first
- Noise in the library must be held to a minimal level

Evaluations

Students are evaluated by the clinical faculty during each department rotation. Evaluations encompass the knowledge, skills, and attitudes (cognitive, psychomotor, and affective domains) demonstrated by the student during the rotation and are a portion of the rotational grade. Students, in turn, are requested to evaluate the rotations, lectures, and program. Comments and constructive criticisms are vital to the welfare of the program and student cooperation in completing thought-out evaluations is solicited.

Student Exit Evaluation

Students are given the opportunity to evaluate and make constructive suggestions for each didactic course and rotation within the practicum. The survey is available online upon completion of the entire course/practicum. The information gathered by the survey will be used for program quality improvement.

Job Placement

There is no formal job placement service at Lakeland Regional Health. It is the student's responsibility to find employment following graduation. In an informal way,

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the hospital Talent department and the Program Director offer as much help to the student as possible. All communications sent to the Program Director concerning job opportunities are brought to the attention of the student.

Grading and Grading Scale

All students are expected to successfully complete each area (rotations and didactic lectures) with a minimum passing grade of "C" (70%) or better. Successful completion of all phases of the clinical education program is a mandatory prerequisite to graduation and certification by the school. Students' progress through the program as indicated on the rotation schedule provided to them upon start of the program. The grading scale is as follows:

90 - 100	Α
80 - 89	В
70 - 79	C
60 - 69	D
60 - 0	F

Final grades for each course are determined by averaging all grades. Grades may come from:

- 1. Theory course assignments, projects and exams (administered as part of didactic coursework, at the discretion of the instructor).
- 2. Laboratory practical assignments, projects and exams (administered as part of didactic coursework, at the discretion of the instructor).
- 3. Practicum assignments and quizzes (administered throughout rotations; varies with each rotation).
- 4. Grading Policy for Clinical Practicum

Weekly Assessment of Performance (5% of grade)

Performance Objective Evaluation (10% of grade)

Final Assessment of Section Rotation (30% of grade) (Clinical Rotations Checklist Evaluation)

Rotation Quizzes/Clinical Cases/Review Assignments-Examinations (15% of grade)

Final Rotation Examination (20% of grade) (Written and Practical Exams at the end of each clinical rotation)

- \bullet Cumulative Final Exam (20 % of grade) (Cumulative exam at the end of your clinical experience). Students are required to pass the Final Rotation Examination, in order to sit for the ASCP BOC or AMT examination.
- •Students are required to pass the Final Cumulative exam in order to pass the Clinical Practicum Course. Students to successfully pass the cumulative exam to pass the MLS program. After successfully passing this exam, the student will

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be awarded a certificate of completion and will be eligible for the ASCP-BOC or AMT examination.

Failure to achieve a passing grade in any clinical practicum rotation will result in a student action plan and automatic probation with the program director. The program director will evaluate if the student does not demonstrate appropriate entry level skills, and affective skills after probation time, and the student will receive a grade of F for the semester. The student will be subject to FSC academic policies and procedures that result from course failure, and the student will not be allowed to sit down for ASCP Board examination or AMT examination.

Granting of the degree is not contingent upon passing an external certification or licensure exam.

Appeals

If a student feels a rule, regulation, grade, or disciplinary measure (academic or non-academic) is unfair or prejudiced, he or she may request a conference with the Program Director or with the Advisory Committee. The student will be notified in writing of the decision reached by the Program Director or the Committee. The student has the right to appeal decisions of the Program Director to the Advisory Committee and decisions of the Advisory Committee to a neutral arbitrator (the Team Leader Education Coordinator from the hospital's education department) not associated with the laboratory. Appeals must be made in writing within two working days after notice of the last action taken. Decisions of the neutral arbitrator are final.

Improper Conduct During Clinical Rotations at LRH

Any conduct unbecoming a medical laboratory professional will not be tolerated at during the MLS program and the clinical practicum at LRH. The following offenses and punishments are listed in the table below, which include for immediate program termination in the clinical practicum portion of the program.

First Offense	Second Offense	Third Offense
Verbal warning	Writing warning	Dismissal
Verbal warning	Writing warning	Dismissal
Writing warning	Dismissal	
Verbal warning	Writing warning	Dismissal
Verbal warning	Writing warning	Dismissal
Verbal warning	Writing warning	Dismissal
	111.4.4	-
Verbal warning	Writing warning	Dismissal
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	111.14	5
Verbal warning	Writing warning	Dismissal
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verbal warning	writing warning	Dismissal
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	Verbal warning Verbal warning	Verbal warning Verbal warning Writing warning Writing warning Writing warning Writing warning Verbal warning Writing warning Verbal warning Writing warning Verbal warning Writing warning Writing warning Urbal warning Writing warning Dismissal

Incidental Program Expenses

Item	Number needed	Cost per item	Total cost
Immunizations/Titers	8	Varies	Varies
Scrubs	Varies	Varies	Varies
Safety glasses	Varies	Varies	Varies
Drug Screen	One	\$36	\$36

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Background Check	One	\$57	\$57
FDOH Trainee	One	\$100	\$100
License			
Certification Exam	One	ASCP \$250	ASCP \$250
Fee		AMT \$245	AMT \$245
Tuition	Annual	\$40,500	\$162,000
Books	Varies	Varies	\$300-600
Lab CE	One	\$95	\$95
Liability Insurance	Annual	\$20	\$20
Clinical Laboratory	One	\$45	\$45
Trainee License			

(NOTE: All fees are subject to change without prior notice)

National Certification - A fee is charged by the American Society of Clinical Pathologists (ASCP) Board of Registry to be admitted to the certification examination. Other certifying bodies (AMT, AAB) will charge varying exam fees.

State Licensure - A fee is charged by the State of Florida for the clinical laboratory technologist licensure.

Room and Board - Room and board will be provided by the student. Meals may be purchased in the hospital employee cafeteria or lunches may be brought and kept in the laboratory staff lounge refrigerator.

Insurance

Students are required to provide their own medical insurance and documentation of proof of insurance must be shown to the Program Director on the first day of class. Students also purchase a liability policy for a minimal fee for liability coverage during the clinical practicum. Liability Insurance information is provided to accepted students free of charge. Lakeland Regional Health group medical insurance is NOT available to students. Each student must provide his/her own coverage and must show proof of coverage to the Program Director. Students may purchase annual health insurance from FSC for approximately \$1,600. In case a claim should arise from any laboratory incident, the student is responsible for submitting the claim to his or her insurance company and for any deductible incurred.

Essential Functions of the MLS Student

Summary:

Responsible for performing test procedures authorized by the Medical Laboratory Director, with the degree of skill commensurate with individual education, training, experience and technical abilities. Ensure that all laboratory testing is performed according to established protocols or procedures. Exercise professional judgment in evaluation and assessment of test performance, sample integrity, result accuracy and validity. Follows all safety practices and maintains ongoing competency to ensure high quality testing services.

Detailed responsibilities:

- * People At The Heart Of All We Do
 - Fosters an inclusive and engaged environment through teamwork and collaboration.
 - Ensures patients and families have the best possible experiences across the continuum of care.
 - Communicates appropriately with patients, families, team members, and our community in a manner that treasures all people as uniquely created.
- * Safety And Performance Improvement
 - ❖ Behaves in a mindful manner focused on self, patient, visitor, and team safety.
 - Demonstrates accountability and commitment to quality work.
 - Participates actively in process improvement and adoption of standard work.
- * Stewardship
 - Demonstrates responsible use of LRH's resources including people, finances, equipment and facilities.
 - Knows and adheres to organizational and department policies and procedures.
- * Standard Work Duties: Medical Technologist
 - Participates in day-to-day operations in the laboratory to facilitate workflow, maximize output, and decrease turnaround times
 - Follows laboratory procedures for specimen handling and processing, test analysis, reporting and maintaining records of patient results
 - Utilizes job knowledge, judgment, and problem solving skills to ensure specimen quality
 - Operates, troubleshoots, and takes appropriate action when needed on all test systems

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- Identifies issues that may adversely affect test performance or reporting of test results and takes appropriate action including supervisory notification if indicated
- Participates in laboratory quality assurance programs including proficiency testing
- ❖ Follows established safety and biohazard procedures and standard precautions at all times. Disposes of biohazard waste following laboratory protocols (as detailed in the Laboratory Safety Manual and Chemical Hygiene Plan)
- Monitors quality control of laboratory instruments and test assays. Communicates with supervisor as needed. Responsible for routine preventive maintenance, minor repair, and troubleshooting of instruments
- Supports professional development by assisting with training and/or competency assessments for coworkers, new employees, and students.
- Ensures exceptional customer service is provided through prompt follow-up to requests for information via telephone or computer

Specifications (Physical & Mental Requirements):

Students must be able to perform the essential job-specific functions either unaided, or with the assistance of a reasonable accommodation to be determined by the organization on a case-by-case basis. If the requirement is not marked, then the standard is generally considered not applicable.

Requirement	Occasionally (1% -33%)	(0/00-0/1)	Frequently (34% - 66%) Continually (67% - 100%)		Requirement	Occasionally (1% - 33%)	Frequently (34% - 66%)	Continually (67% - 100%)
General Requirements (has the ability to)		T			Required Lifting (ability to lift & lateral transfers)			
Sit				\boxtimes	Up to 10 lbs			\times
Stand				\boxtimes	11 to 24 lbs			\times
Walk				\times	25 to 34 lbs			X
Drive					35 to 50 lbs			\times
Bend				\times	51 to 75 lbs with assistance	\times		
Climb	\boxtimes				76 to 100 lbs with assistance	X		
Kneel			\times		Over 100 lbs with assistance	\times		
Crouch			\boxtimes					
Twist				\boxtimes	Pushing/Pulling (on wheels & lateral transfers)			
Maintain Balance				\boxtimes	Up to 10 lbs			\times
Reach		\top		\boxtimes	11 to 24 lbs			\times
					25 to 34 lbs			\times
Sensory Requirements (has ability for)		T			35 to 50 lbs			\boxtimes
Far Vision		T		X	51 to 75 lbs with assistance	X		
Near Vision		T			76 to 100 lbs with assistance	$\overline{\boxtimes}$		
Color Vision		T		X	Over 100 lbs with assistance	X		
Depth Perception		T		\boxtimes				
Seeing Fine Details		T		X	Environmental Exposure (may be exposed to)			
Hearing Norm Speech		T		\boxtimes	Infectious Diseases			\times
Hearing Overhead Pages				\boxtimes	Chemical Agents	\boxtimes		
Telephone use	$\top \overline{\Box}$	T		X	Dust, Mist, Fumes, Gases	X		
Ability to communicate				\times	Extremes in Temperature or Humidity			
Mental & Emotional Requirements (ability to)		T			Hazardous or Moving Equipment		X	
Cope with high level of stress	\boxtimes				Work at different levels of height			
Make decisions under high pressure	\times	T			Loud Noises	X		
Cope with anger/fear/hostility of others in a calm way	\times							
Manage altercations		\top			Other Requirements			
Concentrate				\boxtimes	Glove use (specific to work area)			\times
Handle a high degree of flexibility			\boxtimes		PPE (Personal protective equipment specific to work area)			\boxtimes
Handle multiple priorities in stressful situation	\times				Respiratory Protection (specific to work area)	\times		
Work without direct supervision	\boxtimes				Vaccines/TB Screening			\times
Demonstrate high degree of patience				\boxtimes	Ability to drive vehicle (specific to work area)			
Adapt to shift work/flexible scheduling	\boxtimes				May be required to work in latex environment (specific to work area)	\boxtimes		
Work in confined area	\times							
Hand Manipulation (ability with)								
Simple Grasping		T		\boxtimes				
Firm Grasping		\top						
Fine Manipulation/Keyboard/Key pad	ΤŌ	\top						
To enter data into a system or equipment	╅	\top	TĪ					

Appendices

APPENDIX A: Special Requirements for the MLS Major

Medical Laboratory Sciences (MLS): Special Requirements for the Major

All pre-certified MLS students are required to participate in clinical laboratory experiences at off-site locations. This document outlines the steps and approval processes you must complete before you may enroll in MLS 3100 Introduction to Clinical Laboratory Sciences and Phlebotomy, the first required course at a clinical site. MLS 3100 is also the prerequisite course for all other MLS courses.

For questions regarding these requirements, contact:

Maridaliz Rodriguez Rosado, Ph.D., MLS(ASCP), MB(ASCP)

Educator Coordinator/MLS Director

Lakeland Regional Health

Phone: 863.687.1100 ext. 3179

maridaliz.rodriguezrosado@mylrh.org

<u>Personal Responsibilities:</u> Each student is responsible for obtaining reliable transportation to the clinical laboratory sites. Students may be assigned laboratory rotations on weekends. While at a clinical site, students are expected to dress and behave in an appropriate manner, as outlined in the MLS Student Handbook. Failure to adhere to these guidelines may result in a student being unenrolled in the major.

<u>Criminal Background Screening</u>: Each pre-certified MLS student is required to complete a criminal background screening, including fingerprinting, prior to starting the first clinical laboratory course. Note: Any student with a prior arrest or conviction history may be denied entry into the MLS program due to our agency contract agreements. Students who apply to the MLS program with a prior criminal background check must be further screened by the Program Director and approved by the dean of the School of Arts and Sciences and the MLS Program Director prior to acceptance into the MLS pre-certification program. Failure to disclose prior criminal history on application or report any subsequent criminal arrest after enrollment at Florida Southern College to the dean of the School of Arts and Sciences and the MLS Program Director may disqualify the student from the MLS program.

Background screenings may be obtained by contacting Castle Branch

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<u>Drug Screening:</u> Each MLS student is required to complete a ten-panel drug screen prior to starting the first clinical laboratory experience. Any student may be requested to repeat the urine drug screen as required by any clinical site or as part of a drug testing program. The cost of the background check and drug screenings is the responsibility of the student. Note: Students who have a positive drug test may be denied acceptance into the MLS program or be unenrolled from the MLS program.

Drug screenings may be obtained by contacting Castle Branch

<u>Liability Insurance:</u> A blanket student liability insurance policy will cover all MLS students for the time he or she is working in a clinical site as part of a supervised laboratory experience. The student will be billed the annual fee (estimate \$20).

<u>Trainee License:</u> Each MLS student is required to apply for and obtain a trainee license with the state prior to beginning the first clinical rotation. (Senior Fall Semester)

Trainee licenses may be obtained by contacting Florida Department of Health

<u>Immunizations:</u> Each MLS student is required to provide proof of immunization prior to entering any clinical laboratory. The following are required

- a) Mantoux tuberculin test (2-step method if more than one year has passed since the last Mantoux tuberculin test)
- b) Measles/Mumps/Rubella (MMR) titers
- c) Hepatitis B titer
- d) Hepatitis C titer
- e) Varicella titer
- f) Pertussis (Tdap booster within past 10 years) vaccination record
- g) Tetanus booster every 10 years
- h) Annual flu vaccine
- i) COVID-19 vaccine
- j) Health statement of physical fitness from health care provider stating student may participate in clinical experience assignments

The student is responsible for all related costs for immunization. No student will be allowed to begin clinical laboratory experiences until all immunizations or proof of immunity (titers) has been submitted to the MLS director. Proof of immunizations may be obtained by contacting your Primary Doctor or FSC Medical Center

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Students who have positive antibodies for Hepatitis C or HIV or other chronic infective diseases that may compromise patient safety, must be further screened and counseled. Because students will have direct contact with patients during the course of their clinical assignments in hospitals and other care settings, specific safeguards or other restrictions to practice may be imposed on the student to protect patients and themselves. The clinical agencies will have final say whether infected students can practice or attend clinical assignments.

APPENDIX B: LRH Mandatory Education

Course	Where Found
Appropriate Waste	MediaLab
Disposal	
Laboratory	MediaLab
Ergonomics	
Regulated Medical	MediaLab
Waste Policy Review	
Telephone Etiquette	MediaLab
OSHA Hazard	MediaLab
Communication and	
Chemical Hygiene	
Blood Borne	Education On-
Pathogens: Exposure	Demand/MediaLab
Control Plan IC.0033	
Infectious	Education On-
Tuberculosis TB:	Demand/MediaLab
Exposure Control	
Plan IC.0001	
Post-Exposure	Education On-
Blood/Body Fluids	Demand
Testing: Employees	
IC. 0006	
LRH Student Request	Orientation
Packet	

APPENDIX C: Phlebotomy Clinical Experience



MLS 3100 Introduction to Clinical Laboratory Science and Phlebotomy Florida Southern College

PHLEBOTOMY CLINICAL EXPERIENCE

- A. This course is designated to provide students with experience and skill in collecting blood specimens suitable for clinical laboratory testing. Student learn to perform venipuncture and capillary punctures following established policies and procedures for safety and quality assurance. Experience is gained in selected ambulatory sites at Lakeland Regional Medical Center.
- B. Major Learning Outcomes:
 - 1. The student will demonstrated knowledge of phlebotomy equipment, policies and procedures.
 - 2. The student will demonstrate skill in the collection of quality blood samples for clinical laboratory testing.
 - 3. The student will exhibit the attitudes and behaviors that are expected of a healthcare professional.
- C. Course Objectives Stated in Performance Terms:
- 1. The student will demonstrate knowledge of phlebotomy equipment, policies and procedures by:
 - a. Listing the equipment and supplies needed in the phlebotomy tray and explaining any special requirements associated with the use of each.
 - b. Naming the additives in each of the color-coded evacuated tubes and explaining any special requirements associated with the use of each.
 - c. Stating the correct order for filling evacuated tubes.
 - d. Describing special handling require for specific analytes.
 - e. Recognizing pre-analytical factors that might adversely affect the accuracy of test results.
 - f. Listing established causes for specimen rejection.
 - g. Discussing the importance of proper patient identification and tube labeling.

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Updated July 2024

FCS/LRH reserves the right to make changes to the student handbook program information, as circumstances require.

- 2. The student will demonstrate skill in the collection of quality blood samples for clinical laboratory testing by:
 - a. Selecting the appropriate site, methods, and equipment to be used for blood collection.
 - b. Property applying a tourniquet.
 - c. Performing venipuncture using evacuated tube system, and butterflies.
 - d. Collecting capillary blood by finger stick and recognizing sources of error.
 - e. Discussing proper procedures for obtaining blood from infants by heel stick.
 - f. Explaining protocols and procedures for collecting blood cultures without contamination.
 - g. Consistently following universal precautions, infection control procedures, and all other safety regulations.
 - h. Dealing appropriately with adverse events related to phlebotomy.
 - i. Complying with all quality assurance measures related to specimen collection.
- 3. The student will exhibit the attitudes and behavior that are expected of a healthcare professional by:
 - a. Appreciating the role of the phlebotomist in the delivery of quality laboratory services and patient care.
 - b. Communicating effectively with patients, supervisors, and co-workers.
 - c. Projecting a professional image in dress, grooming, language, and behavior.
 - d. Maintaining patient confidentiality.
 - e. Valuing diversity and treating all others respect.



MLS 3100 Introduction to Clinical Laboratory Science and Phlebotomy Florida Southern College

PHLEBOTOMY CLINICAL EXPERIENCE

PHLEBOTOMY CLINICAL EXPERIENCE

Student name: ______ Phlebotomy Rotation Checklist

Clinical Instructor: _	Rotation dates
collecting blo learn to perfo policies and p	designated to provide students with experience and skill in od specimens suitable for clinical laboratory testing. Student rm venipuncture and capillary punctures following established rocedures for safety and quality assurance. Experience is gained abulatory sites at Lakeland Regional Medical Center.

- 4. The student will demonstrated knowledge of phlebotomy equipment, policies and procedures.
- 5. The student will demonstrate skill in the collection of quality blood samples for clinical laboratory testing.

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E. Major Learning Outcomes:

Updated July 2024

FCS/LRH reserves the right to make changes to the student handbook program information, as circumstances require.

- 6. The student will exhibit the attitudes and behaviors that are expected of a healthcare professional.
- F. Course Objectives Stated in Performance Terms:
- 4. The student will demonstrate knowledge of phlebotomy equipment, policies and procedures by:
 - h. Listing the equipment and supplies needed in the phlebotomy tray and explaining any special requirements associated with the use of each.
 - i. Naming the additives in each of the color-coded evacuated tubes and explaining any special requirements associated with the use of each.
 - j. Stating the correct order for filling evacuated tubes.
 - k. Describing special handling require for specific analytes.
 - Recognizing pre-analytical factors that might adversely affect the accuracy of test results.
 - m. Listing established causes for specimen rejection.
 - n. Discussing the importance of proper patient identification and tube labeling.
- 5. The student will demonstrate skill in the collection of quality blood samples for clinical laboratory testing by:
 - j. Selecting the appropriate site, methods, and equipment to be used for blood collection.
 - k. Property applying a tourniquet.
 - l. Performing venipuncture using evacuated tube system, and butterflies.
 - m. Collecting capillary blood by finger stick and recognizing sources of error.
 - n. Discussing proper procedures for obtaining blood from infants by heel stick.
 - o. Explaining protocols and procedures for collecting blood cultures without contamination.
 - p. Consistently following universal precautions, infection control procedures, and all other safety regulations.
 - g. Dealing appropriately with adverse events related to phlebotomy.
 - r. Complying with all quality assurance measures related to specimen collection.
- 6. The student will exhibit the attitudes and behavior that are expected of a healthcare professional by:
 - f. Appreciating the role of the phlebotomist in the delivery of quality laboratory services and patient care.
 - g. Communicating effectively with patients, supervisors, and co-workers.
 - h. Projecting a professional image in dress, grooming, language, and behavior.
 - i. Maintaining patient confidentiality.
 - j. Valuing diversity and treating all others respect.

Instructions to Trainer: Your phlebotomy student is attending a phlebotomy theory course but has not hands-on experience. This checklist provides a recommended order of instructions. In Section I indicate with an O, D, or P and your initials that the student has observed, discusses, or performed each item before drawing patients.

Section I: Orientation					
	OBSERVE/DISCUSS	INSTR	RUCOR		
		Initials	Date		
Review safety					
equipment, Safety					
Practices					
Locate & identify					
equipment/supplies					
Discuss collection					
list & collection					
schedules					
Discuss					
confidentiality					
HIPAA					
Discuss patient					
identification,					
communication					
with patient,					
specimen labeling					
Discuss specimen					
requirements,					
order of draw,					
minimum volumes,					
special handling,					
etc.					
Discuss policies for					
IVs, burns,					
mastectomy, hard-					
to-gets, line drawns, etc.					
Observe					
venipuncture with					
vacutainer					
Observe					
venipuncture with					
butterfly					
Observe fingerstick					
(if possible)					
(ii hossinic)					

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Observe heelstick		
(if possible)		

After Section I have been completed, the student should draw selected patients under supervision. Students should not be expected to draw hard-to gets or babies nor should they perform hand vein punctures until they are proficient drawing from antecubital veins.

After the student has completed the required number of procedures in Technical Performance Table, please assign an achievement level according to the scale provided and initial and date. Return this form to the student who is responsible for submitting to the college instructor by the due date stated in the course syllabus.

If a procedure is not available at your facility, record NA.

Return this checklist to your course instructor by the due date stated in the course syllabus.

Level of Achievement

N/A	Procedure not performed in this facility
1	UNSATISFACTORY: Student does not demonstrate entry level skills or
	acceptable performance. Student requires coaching to handle unexpected
	results and to recognize technical/instruments problems.
2	DEVELOPMENT NEEDED: Student requires constant and detailed instruction to
	achieve acceptable performance.
3	ACCEPTABLE PERFORMANCE: Student demonstrates acceptable performance.
	The student has practiced the process or skill under supervision of the
	instructor. Requires assistance or supervision.
4	GOOD PERFORMANCE: Students demonstrate good performance procedure
	and shows adequate attention to detail; Requires minimal supervision.
5	EXCELLENT PERFORMANCE: Students performs procedure within established
	limits without assistance; recognized problems and consults supervisor.
	Competency is fully mastered

Affective and Technical Skills Grading Rubric

5	Excellent	Excellent performance;
		exceeds expectations
4	Good	Very good performance;
		consistently meets
		expectations
3	Average	Good performance;
		usually meets
		expectations
2	Below Average	Marginal performance;
		barely meets expectations
1	Unsatisfactory	Unacceptable
		performance, does not
		meet expectations

Affective Skills

Category	Grade
Attendance	
-Attends clinical rotations as scheduled	
-Avoids unexcused/unauthorized absence or tardiness	
Punctuality	
-Arrives on time	
Initiative/Team Player	
- Seeks out opportunities to help colleagues	
- Treats all colleagues with a high level of respect, kindness, and	
professionalism	
- Helps colleagues who may be struggling performing a task or assignment	
- Enjoys working in a team and participating in team decision making	
- Cooperative and encourages collaboration	
- Steps up to resolve conflict and settle disputes equitably	
Professionalism and Ethics	
-Demonstrates good attendance	
-Enjoys working hard, pushing self and others, and is energized by	
challenges	
- Identifies and follows standard work, and policies and procedures	
- Effectively prioritizes work.	
- Is able to perform large volume of work and achieve high levels of	
productivity	
- Can be counted on to strive towards exceeding goals and achieving	
exceptional results	
- Demonstrates responsible use of company resources	

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Responsibility	1
-Completes given task in an organized and timely manner	
-Leaves work area clean	
-Takes responsibility for actions	
-Always handle lab equipment in accordance with guidelines	
-Always follows standard procedure protocols and facility policies	
Attentiveness	
-Pays attention to instructions, ask relevant questions	
-Enthusiastic	

Technical Performance (Effective Skills)

SUPERVISED PRACTICE ON PATIENTS						
			ACHIEV	EMEN	INSTR	UCTO
	OBSERVED/DISCU	PERFORM/TAL	T LE	VEL	R	1
	SS	LY	Expect	Expected		
			Actual		Initials	
					Date	
Equipment			3-5			
Assembly						
,						
Venipuncture by			3-5			
vacuum tube						
Venipuncture by			3-5			
syringe (if						
available)						
Venipuncture by			3-5			
butterfly						
Fingerstick,			3-5			
adult (if						
available)						
Heelstick (if			3-5			
available)						
a raitable j						

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Correct order of draw vacuum tube system		3-5	
Correct order of draw microtube system (if available)		3-5	
Timed collections (if available)		3-5	
Specimen handling/Transp ort		3-5	

Note: A minimum of 50 successful collection must be documented in Effective Skills

PHLEBOTOMY BLOOD DRAW CONSENT

I am aware of the importance of practice in developing entry level phlebotomy skills which are performed as safely as possible. As an educational opportunity being offered to me by the MLS FSC/LRH program, I hereby consent to allow students within this program to practice phlebotomy techniques, including venipunctures and capillary punctures on me in the presence of an instructor, just as I will practice these same techniques on other students in the program. I understand that there are risks, some of which are very rare, associated with phlebotomy which include, but are not limited to infection, bruising, and other potential damage to surrounding tissue. I accept these risks and agree to perform these skills as safely and professionally as possible. I hereby agree to release and hold harmless Florida Southern College and Lakeland Regional Health, its faculty, instructors, its officers, and staff from any and all liability arising out of or related to injuries that I may receive as a result of such phlebotomy practice. I affirm this acceptance on the MLS Program Handbook Signature Form.

APPENDIX D: Lab Practicum Competency Checklist Example

Student name:	Clinical Microbiology Rotation Checklist		
Clinical Instructor:	Rotation dates		
· ·	rotation, the student will be able to discuss, ninimum number of task listed with 100% accuracy.		

The checklist contain the concepts/basic skills and task/test procedures which are to be completed during the clinical experience. These concepts/basic skills and tasks/test procedures have been designated as those in which the student must demonstrate competence to perform as an **entry-level Medical Laboratory Scientist** at the completion of clinical experience. Each of these concepts/basic skills and tasks/test procedures is correlated with the curriculum objectives for this area.

Student Competency will be determined at the end of the clinical experience when, in the professional opinion/judgment of the clinical instructor(s), the concepts and basic skills on this checklist have been completed. The clinical instructor will assess competency based on the level of achievement. Upon completion of this clinical rotation, the student will demonstrate understanding of the theory and demonstrate competency in each of the following skills according to the performance objectives provided. Use instructor initials to indicate level of achievement. Comment as needed.

Level of Achievement

Objectives

N/A	Procedure not performed in this facility
1	UNSATISFACTORY: Student does not demonstrate entry level skills or
	acceptable performance. Student requires coaching to handle unexpected
	results and to recognize technical/instruments problems.
2	DEVELOPMENT NEEDED: Student requires constant and detailed instruction to
	achieve acceptable performance.
3	ACCEPTABLE PERFORMANCE: Student demonstrates acceptable performance.
	The student has practiced the process or skill under supervision of the
	instructor. Requires assistance or supervision.
4	GOOD PERFORMANCE: Students demonstrate good performance procedure
	and shows adequate attention to detail; Requires minimal supervision.

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EXCELLENT PERFORMANCE: Students performs procedure within established limits without assistance; recognized problems and consults supervisor. Competency is fully mastered

	Affective and Technical Skills Grading Rubric				
5	Excellent	Excellent performance;			
		exceeds expectations			
4	Good	Very good performance;			
		consistently meets			
		expectations			
3	Average	Good performance;			
		usually meets			
		expectations			
2	Below Average	Marginal performance;			
		barely meets expectations			
1	Unsatisfactory	Unacceptable			
		performance, does not			
		meet expectations			

Affective Skills

Category	Grade
Attendance	
-Attends clinical rotations as scheduled	
-Avoids unexcused/unauthorized absence or tardiness	
Punctuality	
-Arrives on time	
Initiative/Team Player	
- Seeks out opportunities to help colleagues	
- Treats all colleagues with a high level of respect, kindness, and	
professionalism	
- Helps colleagues who may be struggling performing a task or assignment	
- Enjoys working in a team and participating in team decision making	
- Cooperative and encourages collaboration	
- Steps up to resolve conflict and settle disputes equitably	
Professionalism and Ethics	
-Demonstrates good attendance	
-Enjoys working hard, pushing self and others, and is energized by	
challenges	
- Identifies and follows standard work, and policies and procedures	
- Effectively prioritizes work.	

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 Is able to perform large volume of work and achieve high levels of productivity Can be counted on to strive towards exceeding goals and achieving exceptional results Demonstrates responsible use of company resources 	
Responsibility -Completes given task in an organized and timely manner -Leaves work area clean -Takes responsibility for actions -Always handle lab equipment in accordance with guidelines -Always follows standard procedure protocols and facility policies	
Attentiveness -Pays attention to instructions, ask relevant questions -Enthusiastic	

Technical Performance (Effective Skills)

Quality Assessment	Expected Level	Score	Date	Comments
Process and evaluates specimens for suitability of analysis -Check patient specimens for correct identification/labeling, transport conditions -Identify the type of anticoagulants used in the collection of specimens -State the minimum quantity of	Level 3-5			Comments
specimen required for collection -Discuss the storage requirements for specimens that cannot be performed within established frames -Accurately assess preanalytical factors that influences results				
-Review the Turnaround Time (TAT) protocol, organize the workload according to priority order				

Safety	Expected Level	Score	Date	Comments
Perform proper safety, sanitation and infection control procedures -Utilize standard precautions when handling potentially dangerous reagents and specimens. Always wear PPE such as a lab coat, gloves, mask, aprons, shield, etcIdentify location of safety devices (i.e. fire extinguishers, eye washes, emergency exits) and Safety Data Sheets (SDS) -Demonstrate the proper technique for cleaning and disinfecting work areas	3-5			
Quality Control and Maintenance	Expected Level	Score	Date	Comments
Performs QC on routinely used microbiology reagents, media, and applicable instrumentation	3-5			
Observes or performs preventative maintenance on microbe identification and blood culture instruments	3-5			
Troubleshoots unacceptable QC within the protocols of the lab policies	3-5			
Determines corrective action with documentation during cumulative QC review	3-5			
Instrumentation	Expected Level	Score	Date	Comments
Performs daily instrument start up and maintenance with correct documentation	3-5			
Performs weekly maintenance with correct documentation	3-5			

	T	T	1	1
Performs monthly maintenance with correct documentation	3-5			
with correct documentation				
Accurately documents any	3-5			
instrumentation errors indicating appropriate				
corrective action (provide				
documentation of				
troubleshooting incidents)				
Specimen Processing	Expected Level	Score	Date	Comments
State the sample types that are	3-5			
acceptable/rejection criteria for each type of culture or				
rapid test.				
Correctly identifies source	3-5			
identification and proper labeling				
Appropriately streaks,	3-5			
inoculates, incubates, and/or				
packages the specimens according to procedure				
Blood Cultures	Expected	Score	Date	Comments
	Level	330.0		
Read/discuss principle of the	3-5			
instrument operation or test procedure reaction.				
Load and unload blood culture	3-5			
bottles				
Discuss and/or perform the	3-5			
procedure for processing and "calling" positive blood				
cultures				
Microbial ID and Sensitivity	Expected Level	Score	Date	Comments
Discuss the methodology of the	3-5			
microbial identification and sensitivity system.				
Successfully inoculate and read	3-5			
ID and sensitivity panels.				
-Kirby Bauer				
-E-test				

-Oxacillin screen Agar/MRSA Screen agar or PBP2 Latex Extended spectrum beta- lactamase (ESBL) -Determine MIC compared with reported results				
Recognize and troubleshoot results that are unexpected or unacceptable.	3-5			
Gram Stains	Expected Level	Score	Date	Comments
Successfully completes a minimum of 5 respiratory, 5 blood culture, 5 urines, 5 yeast, and 5 wound/miscellaneous gram stains -Interpret the gram stain smear and identify morphology -Distinguish gram negative and gram positive organisms based	3-5			
on staining characteristics				
on staining characteristics Plate Reading	Expected Level	Score	Date	Comments
	•	Score	Date	Comments
Plate Reading Discuss, observe, and participate in identifying pathogenic organisms in the following types of cultures: blood cultures, respiratory, gastrointestinal, urogenital, and miscellaneous sites such as wounds, CSF and other body fluids -Utilize proper environmental conditions for incubation with 100% accuracy (atmosphere,	Level	Score	Date	Comments

following groups of microbial agents: a. Sthaphylococcus spp and Streptococcus spp b. Haemophilus spp, Bordetella and Legionella c. Neisseria spp. And Moraxella d. Spore-forming and Nonspore forming Gram positive rods e. Non-Fermenting gram negative bacilli f. Enterobacteriaceae and other fermenting gram negative bacilli g. Curved gram negative rods h. Anaerobes of clinical importance	Evnostad	Core	Data	Comments
Confirmatory ID Procedures	Expected Level	Score	Date	Comments
Prepare inoculum from isolated colonies and performed confirmatory ID procedures -Commercial identification kits such as: API, RapidID system -Automated/Semi Atumated Systems such as: Vitek, Maldi-Tof	3-5			
Mycobacteriology	Expected Level	Score	Date	Comments
Process patient specimens for isolation and identification of Mycobacterium -Perform Acid-Fast Stain procedures to stain and correctly recognize AFB -Ziel-Neelsen Method -Kinyoun Method -Auramine Rhodamine -Observed and/or performed culruring for mycobacteria	3-5			

Evaluate cultures for colors:				
-Evaluate cultures for colony				
morphology, pigmentation, and rate of gowth				
-Identify mycobacteria using				
molecular and/or automated				
methods				
Mycology	Expected	Score	Date	Comments
Mycology	Level	Jeore	Date	Comments
Process a specimen for isolation	3-5			
and identification for a				
mycological agent				
-Yeast				
-Molds				
Dimorphic fungi				
-Dermatophytes				
-Actinomyces				
-Perform and evaluate direct				
smears				
-Select and inoculate the				
appropriate culture media				
-Perform proper identification procedures				
i Drocedures				
	Expected	Scoro	Dato	Comments
Parasitology	Expected Level	Score	Date	Comments
	•	Score	Date	Comments
Parasitology	Level	Score	Date	Comments
Parasitology -Process specimens to recover	Level	Score	Date	Comments
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when	Level	Score	Date	Comments
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides	Level	Score	Date	Comments
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given	Level 3-5			
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides	Level 3-5 Expected	Score	Date Date	Comments
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory	Level 3-5 Expected Level			
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance	Level 3-5 Expected			
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained,	Level 3-5 Expected Level			
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained, correlating patient results as to	Level 3-5 Expected Level			
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained,	Level 3-5 Expected Level			
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained, correlating patient results as to possible disease and/or therapy	Level 3-5 Expected Level			
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained, correlating patient results as to possible disease and/or therapy states.	Expected Level 3-5	Score	Date	Comments
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained, correlating patient results as to possible disease and/or therapy states.	Expected Level 3-5 Expected Level 3-5	Score	Date	Comments
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained, correlating patient results as to possible disease and/or therapy states. Special Procedures	Expected Level 3-5 Expected Level	Score	Date	Comments
Parasitology -Process specimens to recover eggs, larvae, and cysts -Identify parasites when positive concentrates/slides given Theory Discuss the clinical significance of abnormal results obtained, correlating patient results as to possible disease and/or therapy states. Special Procedures Perform and observe	Expected Level 3-5 Expected Level	Score	Date	Comments

-Coagulase -Oxidase -Indole -PYR -Microdase -Cedinase disk -Urease -Bile Solubility -TSI/KIA -LIA				
Wet mounts	Expected Level	Score	Date	Comments
-Perform wet mounts Molecular Diagnostics	3-5 Expected	Score	Date	Comments
motocatai Diagnostics	Level	300.0		
-Observe, discuss, and/or perform molecular identification techniques (as available) -Nuclei acid amplification test (NAAT)-Gen Xpert -Nucleic acid hybridization test (DNA probe test) -Probe hybridization -In-situ hybridization (FISH) -Polymerase Chain Reaction (PCR) -Other techniques • GC/Chlamydia • COVID-19	3-5 Expected	Score	Date	Comments
Serology Test	Level	Jeore	Date	Comments
-Observe, discuss, and/or perform immunoserological methods as applied to Microbiology a. latex agglutination b. Enzyme Immunoassays (EIA) -Analyze patients specimens to detect the presence or amount of antibodies/antigens such as: a. Streptocococcal Antibodies	3-5			

b. Enteric Pathogen Latex Agglutination: Salmonella, Shigella, E. coli O157H7 c. C. diff antigen test d. Strep-typing e. Influenza A/B antigen f. Rotavirus g. COVID-19				
Patient Results	Expected Level	Score	Date	Comments
Correctly verified patient ID and specimen type including correct tubes, collection, special handling and/or priority and resolves any issue prior to testing	3-5			
Test performance with efficient and accurate skill on all major analyzers (GenXpert, Biofire, Panther, Anaerobic Chamber, VersaTrek, Anoxomax, Previ Stain, BacT/Alert Virtuo, Vitek, MS Maldi-Tof). Please attach list of testing completed.	3-5			
Identifies critical values and takes appropriate action per lab policy	3-5			
Documents notification of critical values per lab protocol	3-5			
Correctly enters patient results into LIS MLS Student Handbook	3-5		Updated	h.h. 2024

Can correlate results with disease diagnosis/prognosis	3-5		
Demonstrates superior multi- tasking within the microbiology department	3-5		

Competency Assessment	Expected Achievement Level	Supervisor's Assessment	Supervisor Initials
		Pass/Fail If Fail, please explain	
Final Score	3-5 Passing: Student meets performance and/or entry level expectation 1-2 Failing: Student does not meet performance and/or entry level expectations	ii i ait, ptease exptairi	
Practical Exam (Pass/Fail) Students must pass practical exam to pass clinical rotation	Pass		

Student must have an average score of 3 or above on each of the checklists above which includes Effective, Affective and Cognitive learning outcomes. Failure to achieve a passing grade in any clinical practicum rotation will result in a student action plan and automatic probation with the program director. The program director will evaluate if the student does not demonstrate appropriate entry level skills, and affective skills after probation time, and the student will receive a grade of F for the semester. The student will be subject to FSC academic policies and procedures that result from course failure, and the student will not be allowed to sit down for ASCP Board examination. Refer to FSC Probation Policy in MLS Handbook.

Based on the performance, would you consid	ler this student rotation completed?
Yes No	
Student:	
Date:	
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<mark>circumstances require</mark>	

Instructor:	Date:
Additional Comments:	

APPENDIX E: Accreditation Approval Status

The FSC LRH MLS program is awarded Initial Accreditation for five (5) years through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). (NAACLS: https://naacls.org/Home.aspx).

- Next Submission for Program Review-Initial Accreditation Progress Report: April 1st, 2024
- Self-Study: April 1st, 2026
- End Accreditation Date: April 30th, 2027

APPENDIX F: List of Clinical Facilities

Lakeland Regional Health Clinical Facilities

Phlebotomy Clinical Practice Center

Lakeland Regional Health Lake Miriam Urgent Care

4710 Florida Ave S, Lakeland FL, 33813 863-284-5000

Lakeland Regional Health Gateway Walk-In-Care

2815 Lakeland Hills Blvd, Lakeland FL, 33805 863-284-5000

Lakeland Regional Health Pablo Campus

130 Pablo St, Lakeland FL, 33803 863-284-5000

Lakeland Regional Health Hollis Cancer Center

3525 Lakeland Hills Blvd, Lakeland FL, 33805 863-603-6565

Clinical Affiliate System

OneBlood Services

1324 Lakeland Hills Blvd, Lakeland FL, 33805 863-687-1227

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APPENDIX G: Program Faculty

Names and Academic Rank or Title of the Program Director and Faculty in the

Medical Laboratory Sciences Major at Florida Southern College

Program Director:

Maridaliz Rodriguez Rosado, Ph.D, MLS(ASCP), MB(ASCP)

Education Specialist /MLS Coordinator Clinical Laboratory Lakeland Regional Medical Center

Although rotation of faculty may occur within the courses, current faculty available to teach the courses in the MLS major are listed below:

Course number	Course Title	Faculty
BIO 1500	Biology I: Biological Essentials	S. Banks, Ph.D.; C. Brandon, Ph.D.; N. Morvillo, Ph.D.
BIO 1501	Current Perspectives in Biology	S. Banks, Ph.D.; C. Brandon, Ph.D.; N. Morvillo, Ph.D.
BIO 2215	Human Anatomy and Physiology I	.; A. Bowers-Macrander, C. Grissett, Ph.D; M.S.;.; T. Moore, M.S., L. Young, MS.
BIO 2216	Human Anatomy and Physiology	.; A. Bowers-Macrander, C. Grissett, Ph.D; M.S.;.; T. Moore, M.S., L. Young, MS.
BIO 3362	Biochemistry: Molecular Biology	N. Morvillo, Ph.D.
BIO 3710	Microbiology	B. Gaper-Warrick, Ph.D.
BIO 3850	Parasitology	G. Langford, Ph.D.
BIO 4300	Immunology	B. Gaper-Warrick, Ph.D.
CHE 1111	Principles of Chemistry I	C. Gauthier, Ph.D.;
CHE 1112	Principles of Chemistry II	C. Gauthier, Ph.D.;
CHE 2231	Organic Chemistry I	D. Bromfield Lee, Ph.D.; S. Shelby, Ph.D.
CHE 2251	Organic Chemistry I Lab	D. Bromfield Lee, Ph.D.; S. Shelby, Ph.D.
CHE 2232	Organic Chemistry II	D. Bromfield Lee, Ph.D.; S. Shelby, Ph.D.
CHE 2252	Organic Chemistry II Lab	D. Bromfield Lee, Ph.D.; S. Shelby, Ph.D.
MAT 2032	Biostatistics	D. Jelsovsky, Ph.D.; S. Serrano, Ph.D.
MLS 3100	Introduction to Clinical Laboratory Sciences and Phlebotomy	Emilia Marrero-Green, M Ed, MT(AAB), M(ASCP)

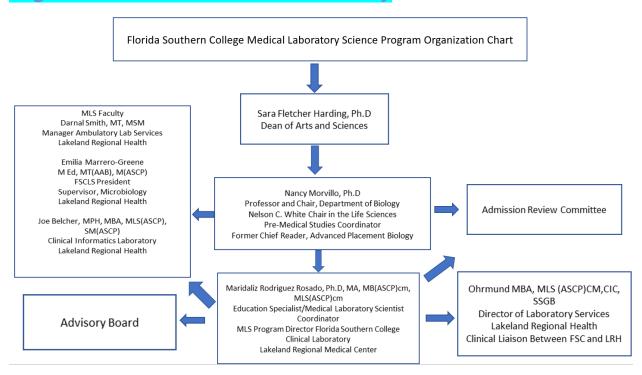
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MLS 3200	Clinical Chemistry and Immunology	D. Smith, MSM, MT (AMT)
MLS 4100	Clinical Hematology	D. Smith, MSM, MT (AMT)
MLS 4200	Clinical Immunohematology	D. Smith, MSM, MT (AMT)
MLS 4300	Clinical Hemostasis, Urinalysis and Body Fluids	Joe Belcher, MPH, MBA, MLS(ASCP), SM(ASCP);
MLS 4400	Clinical Microbiology	Emilia Marrero-Green, M Ed, MT(AAB), M(ASCP)
MLS 4500	Molecular Pathology Methods	M. Rodriguez-Rosado, Ph.D.; MlS (ASCP), MB (ASCP)
MLS 4800	Medical Laboratory Science Practicum	M. Rodriguez-Rosado, Ph.D.; MlS (ASCP), MB (ASCP)
MLS 4900	Medical Laboratory Science Capstone	M. Rodriguez-Rosado, Ph.D.; MlS (ASCP), MB (ASCP)

Florida Southern College Medical Laboratory Science Program Organizational Chart Line of Authority



APPENDIX H: Program Handbook Signature

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I,acknowledge that I have received a copy of the Florida Southern College Medical Laboratory Sciences Program Student Handbook and that the information has been discussed with me. I understand that I am responsible for knowledge of the guidelines and policies of the Program, the Biology Department, as reproduced in the College Catalog and Student Handbook, and the LRH Orientation Handbook. I further understand that those policies are subject to change and that such changes will be made available to me as soon as possible and be binding at the time.
The material reviewed included the following:
 Program Overview Admission Requirements NAACLS Program Entry Level Competency Statements Certification and Licensure MLS Major Requirement and Sequence Clinical Rotations Practical Policies Essential Functions LRH Safety Rules Safety Phlebotomy Consent Form Academic and LRH General Policies General Conduct Appendix
Student Signature:
Date:
Student ID#
Reviewed by:
Maridaliz Rodriguez Rosado, Ph.D, MLS(ASCP), MB(ASCP) MLS Program Director Florida Southern College
Original signature copy will be retained in the student's file.

FCS/LRH reserves the right to make changes to the student handbook program information, as

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circumstances require.

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Safety Acknowledge Signature Form

PLEASE INITIAL THE ITEMS LISTED BELOW
I agree to follow all set rules and regulations as required by the MLS program.
I have been informed that biological specimens and blood products may possess the potential of transmitting diseases such as hepatitis and acquired immunodeficiency syndrome.
I understand that even though diagnostic products are tested for HIV antibodies and Hepatitis B
surface antigen (HBsAg), no known test can offer 100% assurance that products derived from human blood will not transmit diseases.
I agree to complete and follow all biohazard and safety training Laboratory Safety Courses offered at LRH including those listed in the LRH Orientation Handbook.
Student Name:
Student Signature:
Date: