Indian River State College

Medical Laboratory Technology

Application Booklet

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Powered by

The School of Health and Human Sciences

(Rev.11/2026

IRSC OVERVIEW

INDIAN RIVER STATE COLLEGE (IRSC) is a public, comprehensive college with a statewide and national reputation for excellence. Located in Florida's Treasure Coast region, each of the College's five campuses provide unparalleled educational environments.

IRSC serves approximately 30,000 students annually and offers more than 100 programs leading to Bachelor's degrees, Associate degrees, technical certificates and applied technology diplomas. Continuing a 60-year tradition of responsiveness to community needs, IRSC is committed to advancing educational, cultural, career training, workforce and economic development in its service area.

IRSC was distinguished as the 2019 winner of the prestigious Aspen Prize for Community College Excellence, an honor that recognizes outstanding quality in the areas of completion & transfer, labor market outcomes, learning, equity and more. IRSC is one of the few colleges in the nation to earn the Achieving the Dream™ Leader College designation. The College is identified by the United States Department of Education as the most affordable college in Florida and the third-most affordable college in the country.

EA/EO STATEMENT

Indian River State College provides equal employment and educational opportunities to all without regard to race, color, national origin, ethnicity, sex, pregnancy, religion, age, disability, sexual orientation, marital status, veteran status, genetic information, and any other factor protected under applicable federal, state, and local civil rights laws, rules and regulations. The following person has been designated to handle inquiries regarding non-discrimination policies:

Adriene B. Jefferson, Dean of Northwest Center,
Equity Officer & Title IX *Coordinator*
IRSC Massey Campus ▪ 3209 Virginia Ave. ▪ Fort Pierce, FL 34981
772-462-7101

The College Catalog and program websites are readily available and accurately depict:

a. purpose and goals of the program(s):
b. admission requirements and procedures;
c. degree and program completion requirements;
d. faculty, with degrees held and the conferring institution;
e. tuition, fees and other program costs including policies and procedures for refund and withdrawal;
f. financial aid programs;
g. national and/or state requirements for eligibility for licensure or entry into the occupation or profession for which education and training are offered;
h. skill and competencies that students will need at the time of admission to the program.
i. program outcomes

http://www.irsc.edu
http://www.floridasclinicallabs.gov/licensing
http://www.ascp.org/
http://www.aab.org/
http://www.ascls.org
http://www.americanmedtech.org/
http://www.fscls.org/

TABLE OF CONTENTS

Medical Laboratory Technology....1
Application Checklist....1
State Requirements Checklist....2
Trainee License Fee....2
Introduction....2
Criteria for Selection....3
Application Process....4
Applicant Review....4
Acceptance into Program....4
Drug Screening and Criminal Background Check....5
Health/Medical Record....5
Non-Acceptance into Program....5
Program Expenses....6
Financial Aid/Scholarships....6
Medical Laboratory Technology Curriculum....7
Frequently Asked Questions....7, 8
Program Purpose Statement....8

FORMS

Essential Functions....10

MEDICAL LAB TECHNOLOGY PROGRAM

Upon completion of this two-year program, the graduate will have earned an Associate in Science Degree in Medical Laboratory Technology. Graduates qualify to work in hospital laboratories and clinical laboratories performing blood tests. The Medical Laboratory Technologist makes up part of the diagnostic health care team and is responsible for processing body fluids for chemical, serological and biological analysis. He/she analyzes these fluids with computerized high technology instruments.

APPLICATION CHECKLIST

All items on this list must be completed by the Application Deadline Date.

_____ 1. Must be 18 years of age or older and have earned a Standard High School diploma or GED.

_____ 2. **Priority selection is based on a point system**. Refer to page 3 for recommended courses students should complete with a "C" or better by the **Application deadline**

_____ 3. Meet with an Academic Advisor or Admissions Counselor to review program requirements.

_____ 4. Complete the IRSC Application for the Medical Lab Technology program online at Medical Lab Technology website . Pay the $30 fee, **fees are non-refundable.**

_____ 5. Request high school, and/or college(s) official final transcript(s) and submit to the Office of Student Records by the **application deadline date**.

_____ 6. Complete the **Essential Functions** Form in this booklet and return it to the Medical Laboratory Technology Department by the application deadline date.

_____ 7. IRSC and college cumulative GPA of 2.5 or higher **required**.

Completion of this checklist alone does not guarantee acceptance to the Medical Laboratory Technology program. Students are selected on a competitive basis.

Note: Do not proceed with drug/background screening, physical and health insurance until notified.

STATE REQUIREMENTS CHECKLIST

The State of Florida requires students of the Medical Lab Science program to complete a Florida Department of Health, Board of Clinical Laboratory Personnel Trainee Application. Visit www.floridasclinicallabs.gov/licensing for the most current guidelines on the State of Florida Medical Lab Technology Trainee license.

TRAINEE LICENSE FEE (Refer to the Program Expenses for Price)

Students must be accepted into the MLT program to obtain a training license with the State of Florida. Additional information on the associated fees and directions for the license application will be reviewed during the MLT student orientation.

INTRODUCTION

The Medical Laboratory Technology program is offered through the Indian River State College Health and Human Sciences Division. All applicants enter this program through a Selective Admissions process.

CRITERIA FOR SELECTION

Factors utilized for selection include but are not limited to:

Past academic performance, grade point average and required specialized electives of the MLT Curriculum are indicative of the probability of an applicant's completing the academic portion of the program successfully. It is recommended for students to complete as many of the following courses as possible before applying to the program.

Instructions:

Total Credits: Add up only the credits that you have taken

Numerical Grades: A = 4, B = 3, C = 2

Total Quality Points: Multiply credits by grade for each course and add the total in the **total** column
Total Points: Sum of all points.

COURSES	CREDIT	GRADE	TOTAL
Any Core Math	3		
BSC2010 & BSC2011 or BSC2085 & BSC2086	3		
BSC2010L & BSC2011L, or BSC2085L & BSC2086L	1		
Chemistry 1045	3		
Chemistry 1045L	1		
Chemistry 1046	3		
Chemistry 1046L	1		
Civic Literacy Assessment	1		
TOTAL POINTS			

APPLICATION PROCESS

Prior to beginning the application process:

1. Read the **Medical Lab Technology Application Booklet**.
2. Complete the online **Application** for the Medical Lab Technology program and pay the $30 application fee.

All applicants will be notified of their status approximately two to four weeks after the deadline date **via email** to the address provided in the Health Science Application. No information is available by telephone. Once notified of provisional acceptance, students will be required to have a completed Indian River State College physical examination, a negative drug screen report and a FDLE background check prior to being admitted into the program.

APPLICANT REVIEW

Final consideration for admission into the Medical Laboratory program will be based upon the Health and Human Sciences **Admissions Committee review** and scoring of the following criteria:

1. Indian River State College Admission Status must be complete (By the application deadline date).
2. Pass the Background Check and Drug Screening
3. 2.5 Cumulative GPA (By the application Deadline date)
4. Total quality points from selection criteria courses

All of the above criteria must be met or the applicant file will not be reviewed and scored.

Note: **Meeting admission criteria does not guarantee acceptance into the program. Students are selected on a competitive basis.**

ACCEPTANCE INTO PROGRAM

The Health and Human Sciences Division will notify those applicants who have met minimum acceptable scores of their provisional acceptance into the program. Final acceptance into the program is contingent upon satisfactory results from a physical examination, drug screen and National background check. Information on obtaining these tests/reports will be provided in the provisional acceptance notification package.

DRUG SCREENING and CRIMINAL BACKGROUND CHECK

When submitted, these records will become the property of the College, and will not be available for copying or for use to meet the requirements of outside employers. Students who are out of the program for six months or more must submit new records.

Refer to the College website at www.irsc.edu. Click **Academics**, **All Programs** and select **Medical Laboratory Technology** and select **Background Check and Drug Screening Requirements link**.

HEALTH/MEDICAL RECORD

A completed medical health form must also be completed and approved. This health record will contain results from a physical examination and laboratory tests including immunization records.

Applicants who do not meet the standards of good physical and mental health, as required by clinical facilities for safe patient care, may reapply and be considered for application to a Health Science program after resolution of the health problem. An updated health record, verified by a licensed physician, physician's assistant or an ARNP must be submitted.

HEALTH INSURANCE

Indian River State College and partnering clinical sites require all health science students who register for clinical courses to have personal health insurance. Students will be asked to show proof of personal health insurance by presenting their insurance policy number, the name of the insurance provider and the telephone number of the provider to clinical preceptors or administrators. **If students do not have health insurance or do not provide proof of health insurance, they will not be eligible for clinic rotation which will result in termination from program. Personal health insurance may be purchased through the Health and Wellness Department. Call them at 772-462-7825 for more information.**

NON-ACCEPTANCE INTO PROGRAM

Applicants who do not qualify for the program will be notified via email, and student may call the Health and Human Sciences Department at 772-462-7550 for information regarding their application.

PROGRAM EXPENSES

A list of approximate costs is located on the College website at **www.irsc.edu**. Click **Programs** and select **Medical Lab Technology**, and select **Program Expenses**. In addition to these costs, the candidate should allow for room, board, transportation and personal living expenses. Note that non-Florida resident tuition is a higher rate per credit hour, which will increase total fees accordingly.

FINANCIAL AID/SCHOLARSHIPS

Financial Aid is available to those who qualify. Complete the FAFSA application to determine eligibility. For more information, contact the Indian River State College Financial Aid Office at 772-462-7450.

Scholarships designated for students in the Health and Human Sciences programs may also be available. Click on the Foundation link to learn about scholarships at ***The River*** **https://irsc.edu/admissions/financial-aid/types-aid/scholarships/ .**

You may also contact the Scholarship Development Coordinator; Sherri Monds at smonds@irsc.edu .

MEDICAL LABORATORY TECHNOLOGY CURRICULUM

Students in the Medical Lab Technology (MLT) program pursue an A.S. Degree and upon completion will be eligible to take the American Society of Clinical Pathologist Medical Laboratory Technician and American Association of Bioanalysts Medical Technologist certification examination with a foundation in medical technology. The program consists of classroom instruction, lab practice, clinical time in a hospital lab, and culminates in a 12-week clinical practicum at a local hospital. The MLT program Curriculum can be located here Curriculum .

FREQUENTLY ASKED QUESTIONS

What will the MLT program prepare me to do?

Upon completion of this two-year program, the graduate will have earned the Associate in Science Degree in Medical Laboratory Technology. There is a shortage of licensed medical technologist. Graduates qualify to work in hospital laboratories and clinical laboratories performing blood tests. The approximate starting hourly pay is from $19 to $25 per hour, typically with full benefits. Some hospitals also offer a $5,000 sign on bonus.

What are the duties of Medical Laboratory Technologists?

The Medical Laboratory Technologist makes up part of the diagnostic health care team. He/she is responsible for processing body fluids for chemical, serological and biological analysis and analyzing these fluids with computerized high technology instruments. Five distinct departments comprise the clinical laboratory. They are the Blood Bank, the Hematology Department, the Serology Department, the Chemistry Department and the Microbiology Department.

When will I begin clinical training?

Students will be assigned to area hospitals within the first Fall term of the program. Rotations will continue for a total of six (6) semesters. Students will spend six (6) hours per week at an affiliated clinical site during their freshman year and six (6) hours per week during their sophomore year. During Summer I of the sophomore year, the student spends 32 hours at the hospital and six (6) hours a week on campus. (Total clinical training averages 700 clinical hours.)

How do I become a Certified Medical Technologist?

Graduates of the two-year program must pass a national Medical Laboratory Technician Exam (American Society of Clinical Pathology Medical Laboratory Technician), which allows them to apply for a Florida license as a Medical Laboratory Technician. They also qualify to sit for the written national Medical Technologist Examination given by the American Association of Bioanalysts, which allows them to apply for a technologist license in Florida.

What is the job outlook for a Medical Laboratory Technologist?

There is a GREAT demand for MLTs, both locally and nationally, with beginning salaries and benefits that reflect this demand. There is a national shortage of medical technologists at this time.

What areas of advancement are available within this profession?

Indian River State College offers a Bachelor of Science Degree in Biology. A Bachelor of Science Degree enables the student to apply for the Florida State Supervisors license and will also enable the student to act as a Chief Technologist and run a clinical laboratory.

PROGRAM PURPOSE STATEMENT

To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains as performed by medical laboratory technicians.

Program Outcomes:

1. Apply the skills, knowledge, attitudes and values necessary for positions as medical laboratory technicians in the real workplace.
2. Demonstrate professional attitudes and values and an understanding of the ethical/legal principles in all interactions as a medical lab professional.
3. Apply the principles and procedures for entry-level medical laboratory technicians in the areas of hematology, urinalysis, immunohematology, serology, clinical chemistry and microbiology without clinically significant errors.

    a. **Phlebotomy**
        - Perform collection of blood specimens for clinical laboratory testing.

    b. **Clinical Chemistry**
        - Perform analyses of chemical constituents on physiological specimens.

    c. **Microbiology**
        - Culture, isolate and identify microorganisms from clinical specimens.
        - Perform antibiotic susceptibility tests for microorganisms found in clinical specimens.

    d. **Hematology**
        - Perform analyses of chemical, cellular and formed elements in blood and cerebrospinal fluid specimens.
        - Microscopically detect cellular abnormalities in blood specimens.

    e. **Immunohematology**
        - Perform analyses resulting in the typing, antibody identification and compatibility assurance of donor and recipient blood specimens.

    f. **Immunology and Serology**
        - Perform, read and interpret serological tests for the presence of antibodies, antigens or specific proteins.

g. **Urinalysis**
- Perform analyses of the microscopic and chemical composition of urine.

h. **Coagulation**
- Perform tests which evaluate the hemostatic mechanism.

i. **Parasitology**
- Locate and identify parasites present in biological specimens.

j. **General**
- Obtain and process biological specimens suitable for analysis.
- Record and transcribe the results of laboratory tests with **100%** accuracy.
- Maintain laboratory equipment in accordance with laboratory procedures to the extent that accuracy and precision of test results is maintained.
- Evaluate and use quality control systems for established laboratory procedures to the extent that quality of output is high.
- Recognize and analyze causes of problems to the extent that the cause can be theorized.
- Relate laboratory findings to common disease processes.

Indian River State College

Essential Functions

MLT students will also be expected to meet the technical standards that are necessary to perform the "essential functions" of a Medical Laboratory Technician. These technical standards are as follows:

Strength: Moderate muscular strength is needed. In the course of the program, the MLT student may be: pushing, pulling and lifting objects more than 20 Lbs.

Motor Skills: The MLT student should possess the ability to safely and accurately perform all laboratory procedures, manipulate tools, instruments and other equipment in the laboratory. In the course of the program, the MLT student may be: performing simple motor skills such as standing, walking, etc.; performing simple manipulative skills such as washing, writing, collating, etc.; performing moderately difficult manipulative skills such as positioning patient, using a computer keyboard, etc.; and performing difficult manipulative skills such as invasive procedures, calibration of equipment, etc.

Coordination: In the course of the program, the MLT student may be: performing body coordination such as walking, stooping, etc.; performing tasks that require hand-eye coordination such as keyboard skills, phlebotomy, etc.; and performing tasks that require arm-hand steadiness such as invasive procedures, etc.

Mobility: The student should be able to move from place to place in the performance of his or her work. In the course of the program, the MLT student may be: walking and standing; sitting and standing for prolonged periods; and assuming uncomfortable positions such as bending over tables, etc.

Visual Discrimination: The student should be able to read charts and graphs, read instrument scales, discriminate colors, read microscopic materials and record results. In the course of the program, the MLT student may be required to: see objects far away as in driving; see objects closely as in reading patient sample information and test instrument data; and differentiate colors and visual structures as in reading microscope slides, labels, color comparison charts, warning symbols, etc.

Speech and Hearing: The student must be able to communicate effectively and sensitively in order to assess both verbal and non-verbal communication; be able to adequately receive and transmit information to the patient and to members of the health care team; and hear normal sound with some background noise.

Mental Requirements: The medical laboratory student should possess the emotional stability and health needed for full utilization of his or her intellectual abilities. The student must be free of mind-altering drugs, including alcohol and must be able to recognize emergency situations and take appropriate action.

Environmental Conditions: The MLT student may be exposed at different times to: human blood, urine, body tissues or fluids; grease or oil; toxins, cytotoxins or poisonous substances; dust, mold, respiratory and contact allergens; other hazardous materials such as chemicals; electromagnetic radiation as in CRTs or VDTs; sharply pointed and sharp-edged objects and dangerous electrical current and voltages.

Communication Requirements: The MLT student will: communicate verbally with individual patients, staff members, visitors, and telephone callers in order to explain detailed information; communicate verbally with small groups in an informal setting; initiate honest agreement or dissent regarding interpretation of data; and perform detailed written documentation on a daily basis.

Student Signature _____ **Date** _____

Program Director's Signature _____ **Date** _____

Submit form to Health Science

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