Medical Laboratory Technology (also known as Clinical or Medical Laboratory Science) is a profession which combines the challenges and rewards of both medicine and science. Medical Laboratory Technicians perform a wide range of laboratory tests. Tests include, but are not limited to microscopic examination of blood, identification of bacteria and viruses, typing blood to ensure safe transfusions, and measuring the chemical content of blood. This testing helps to monitor patient health, provides diagnostic evidence of diseases (such as AIDS, diabetes, or cancer), and also aids in patient recovery. Medical laboratory science is a dynamic, specialized profession that continually changes as new medical knowledge is acquired.

The Medical Laboratory Technician scope of practice includes, but is not limited to: collection of blood specimens; performing and interpreting tests on blood and body fluids in order to monitor health and to aid in the diagnosis of disease; integrating data generated by the various clinical laboratory departments while making judgments regarding possible discrepancies; operating the latest biomedical instruments; confirmation of abnormal results; verifying quality control results; developing solutions to problems that may occur during testing; and communication with the entire health care team to help ensure quality patient care. Medical Laboratory Technicians conduct work in a variety of disciplines including immunohematology/blood bank, hematology, clinical chemistry/toxicology, coagulation/hemostasis, molecular diagnostics, urinalysis, and clinical microbiology. Employment opportunities are available in hospital labs, physician office labs, point of care testing, reference laboratories, and clinical research.

Clinical laboratory professionals practice independently and collaboratively, being responsible for their own actions, as defined by the profession. They have the requisite knowledge and skills to educate laboratory professionals, other health care professionals, and others in laboratory practice as well as the public. Therefore, the ability to relate to people, a capacity for reasoned judgement, and a demonstration of commitment to the patient are essential qualities. Communication skills extend to consultative interactions with members of the healthcare team, external relations, customer service, and patient education. Laboratory professionals demonstrate ethical and moral attitudes and principles that are necessary for gaining and maintaining the confidence of patients, professional associates, and the community.

It is the mission of the Medical Laboratory Technology Program to provide well trained, professional, knowledgeable and competent Medical Laboratory Technicians to serve the healthcare community and public at large. The program is designed to prepare students to enter the work force as Medical Laboratory Technicians, knowledgeable and skilled in assisting physicians in the identification, monitoring, and treatment of diseases. Successful completion of the program will allow the student to sit for the national certification exam to become a Certified Medical Laboratory Technician (MLT). Certification is available through the American Society of Clinical Pathologists Board of Certification or the American Medical Technologist. In Tennessee, a professional license may then be granted to the medical laboratory professional from the State Medical Laboratory Board.

1. The program will educate and train students to perform as knowledgeable and competent medical laboratory technicians.
2. Graduates will be able to demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their role as a Medical Laboratory Technician.

3. Graduates will be able to demonstrate entry-level technical competency in all skills necessary to fulfill their role as a Medical Laboratory Technician.

4. Graduates will demonstrate personal behaviors consistent with professional and employer expectations of a Medical Laboratory Technician.

5. Graduates will render both professional and personal services to the patient, physicians, coworkers, other laboratory professionals, and the community.

6. Graduates will possess the necessary knowledge to pass a national certification exam and meet the criteria for licensure established by the Tennessee Medical Laboratory Board.

laboratories. There may be more than one section of each lab course offered. Registrations for lab courses are first come first serve and registration will be honored.

The late fall and spring semesters are spent in clinical practicum rotations along with didactic courses. Clinical practicum rotations consist of 16-32 hours/week at area clinical laboratories. Students are involved in the educational training for a period of twelve months in order to meet requirements of the program and to fulfill requirements of the Associate of Applied Science Degree.

Part-Time Program - The program begins in January each year and

SPRING- 1st year	Course	Hrs
Humanities and/or Fine Arts	*See college catalog for options College Catalog	3
BIOL 2020	Human Anatomy & Physiology II (Lecture and Lab)	4
Natural Science Elective: Choose one	BIOL 2230-Microbiology (Lecture and Lab) and/or	

	Total	**9**
FALL- 2nd year	Course	Hrs
MLAB 2202	Urinalysis and Body Fluids	2
MLAB 2301	Immunohematology/ Blood Bank	3
MLAB 1510	Clinical Practicum II	5
	Total	**10**

SPRING- 3rd year	Course	Hrs
MLAB 2201	Clinical Immunology	2
MLAB 1510	Clinical Practicum III	5
MLAB 2270	Seminar II	2
	Total	**9**
	Program Total	**67**

All course descriptions can be found on the college's online catalogue.
http://catalog.volstate.edu/ (All program courses have the prefix 'MLAB.')

Centennial Medical Center

Cookeville Regional Medical Center

Greenview Regional Hospital

Henders305 e R(e Re)M(ni)3(i)5(cal)6( )-4(65(e

1.____Complete all College Admission Criteria (http://www.volstate.edu/Admissions/).

2.____Successful completion of learning support courses ***(if required)*** as determined by the placement. (http://ww.volstate.edu/advising/placement)

3. ____Complete or be in progress to complete all prerequisite courses required for the MLT Associate of Applied Science Degree. A minimum GPA 2.7 for these courses and a C or higher is required.

4.____Complete and submit the online MLT Program Application no later than **March 15th for Full-Time Program and October 15th**

Students are responsible for any and all additional costs. These costs include but may not be limited to the following:

Students admitted into the Medical Laboratory Program are required to wear professional clothing or scrubs for all of the clinical courses, so they must purchase sufficient numbers of these uniforms.
Textbooks may be purchased at the VSCC Bookstore. Students are not limited to where they purchase textbooks.
A background check must be completed and passed before clinical practicum rotations begin.
A Drug Screen must be completed and passed before attending clinical practicum rotations.
Immunizations must be current, and the student's general good health must be documented.
Appropriate insurance (health and professional liability) must also be purchased. If health insurance is obtained through the Affordable Care Act, **pay attention to enrollment deadlines (often in February).**

The following estimated program costs are subject to change (excludes tuition and fees):

1. VSCC Application Fee		free
2. Program Books (estimated)	Summer semester	$500.00
	Fall semester	$300.00
	Spring semester	$300.00
3. **Clinical costs (estimated)**		
	Physical examination	possibly no cost
	Disease screening (titers)	$ 80.00
	Hepatitis B immunization/ titer	$250.00
	Measles, Mumps, Rubella Vaccination	$ 70.00
	Influenza Vaccination	$ 30.00
	COVID Vaccination (clinical site discretion)	$ 30.00
	TDAP Vaccination	$125.00
	Chicken pox Vaccination	$125.00
	Tuberculosis (TB) QuantiFERON	$100.00
	Color blindness test	possibly no cost
	Malpractice Liability Insurance	$ 13.00
	Health Insurance	TBD by provider
	BLS Certification	$60.00
	Lab Coat	No cost
	Background check	$ 46.50
	TN State Training License	No cost
	Drug screen test-10 panel	$31.00
	Professional dress/scrubs	$200.00
4. Professional Fees		
	National Board Certification exam (only one of the following is required):	
	ASCP BOC	$225.00
	AMT	$175.00

State Professional License (optional)	$ 60.00
State Background check (optional)	$ 45.00