

Camosun College
Continuing Education & Contract Training

Medical Laboratory Assistant Program



VICTORIA

| BRITISH COLUMBIA

| CANADA

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Table of Contents

Medical Laboratory Assistant Program	3
Who should attend?	3
Why you should attend?	3
Who is a Medical Laboratory Assistant?	4
General duties.....	4
Personal qualities for success	4
Important facts about this program	5
Information sessions.....	5
Where and when the program is delivered.....	5
Practical Experience	5
Learning outcomes	6
Course descriptions	6
Admission requirements	10
Program participation requirements	10
Criminal record check	10
Health considerations	10
Program costs	11
Tuition	11
Refund policy	11
Other costs.....	11
Financial aid may be available.....	11
Application procedures	12
When to apply	12
Applicant Status	12
Seat Offers.....	12
Victoria	12
North of the Malahat	12
How to apply	13
Frequently Asked Questions	14
Important Numbers	16

Working together with



Camosun College

Medical Laboratory Assistant Program

We are proud of our long history of being Vancouver Island's leading provider of Medical Laboratory Assistant education. This is an important and meaningful profession, and we are dedicated to supporting your success.

Our Medical Laboratory Assistant catalogue will provide you with details about this outstanding program taught by our dedicated and experienced team. We encourage you to attend an Information Session or contact us if you have any questions.

Valerie Montague, Program Coordinator

Who should attend?

This comprehensive program is for anyone wanting to begin a career in health care or looking at the possibility of changing careers. You may be:

- Graduating from high school
- Looking at the possibility of becoming a Medical Laboratory Technologist and wanting to become a Medical Laboratory Assistant initially to see if this may be the career for you
- Returning to a career having been at home with children
- Wanting to change from your present career to a new career in health care
- Currently working in health care and wanting a change to a similar field

Why should you attend?

This program:

- Has a respected curriculum
- Is taught by professionals bringing the real world into the classroom
- Provides graduates qualified to meet the standard set by hospitals and community laboratories
- Is approved by BC Society of Laboratory Science (BCSLS)
- Is part-time thereby allowing you to continue to work if you are employed
- Distributes the learning to allow integration of the curriculum
- Provides practicum placements in both hospital and community laboratories
- Has a hiring rate of over 96%

Who is a Medical Laboratory Assistant?

As a Medical Laboratory Assistant (MLA) or Technical Assistant (TA) you will perform a vital role in the medical laboratory team, working closely with the public and capably performing the required manual skills. In this program, you will be trained in the collection of specimens from patients, the initial processing and preparation of specimens for analysis, data entry, clerical and reception services, performance of electrocardiograms (ECG's), and a variety of basic laboratory procedures.

The Medical Laboratory Program prepares you to apply for employment in a hospital or community laboratory. The program consists of theory, practical skills, and practicum components. Upon successful completion you will receive a Camosun College certificate. This program meets the criteria set by the BC Society of Laboratory Science (BCSLS).

General Duties

- Participate as an important member of the laboratory team
- Provide patient reception and documentation
- Use correct techniques to safely collect blood specimens
- Provide information to patients regarding proper collection of specimens other than blood
- Appropriately handle and distribute specimens to be analyzed by other members of the laboratory team
- Maintain a safe working environment
- Perform electrocardiograms (ECG's), applying an understanding of heart activity and heart electrical conductivity

Personal Qualities for Success

To be successful as a Medical Laboratory Assistant, you must:

- Enjoy being a member of productive, disciplined team
- Enjoy performing precise work, where details can be a matter of life or death
- Be able to complete repetitive tasks accurately
- Maintain accuracy even in stressful or emergency situations
- Truly care about and find satisfaction in providing service to people
- Demonstrate good communication, interpersonal skills and dependability
- Be willing to take direction
- Be able to work competently without constant supervision
- Have good manual dexterity and enjoy working with your hands

Important facts about this program

Information Sessions

It is strongly recommended you attend a FREE information session, no registration required. The program coordinator, and instructors who also are currently working in the field, will provide detailed information on the work performed, what the course entails and the admission process. You will have an opportunity to ask questions and we hope you will make a more informed decision after attending the session.

For a listing of all Information Session dates please check camosun.ca/ce. Please check this website the day of your scheduled session or phone 250-370-4578, as cancellations may be posted.

If you are reapplying for the program and/or have not attended an Information Session in more than one year, please attend a more recent Information Session to receive the current program information.

Where and when the program is delivered

- Offered once per year at the Lansdowne Campus in Victoria, from September to April.
- All theory is delivered in a classroom, two evenings per week from 6-9pm.
- The lab takes place on most Saturdays from 9am-3pm.
- Additional hours are required at community and hospital lab sites for the Practical Skills course and the Practicum.
- Students that commute to class from up-Island will be assigned a practicum placement within their region. See page 12 for details.

Practical Experience

- From October until February students will be assigned a placement in two working laboratories (one hospital site and one community site). The program requirement is to complete 7.5 hours per month, alternating sites monthly. Students will attend at both sites in February.
- The four week, full-time, day-time practicum is held from late March to April.

Practicum sites are arranged by Camosun College. See Criminal Record Check requirement.

Learning Outcomes

Program Learning Outcomes

Upon completion of the Medical Laboratory Assistant, you the graduate, will be able to:

1. Perform the role of the MLA in hospital and private clinical laboratories and within the context of the health care system
2. Follow legal and ethical guidelines in performance of duties as a MLA
3. Demonstrate effective communication skills with patients and members of the health care team
4. Perform duties in a manner that assures and improves quality health care
5. Use knowledge of human anatomy and physiology to perform tasks in a safe and appropriate manner
6. Define and use correct terminology related to measurements used in the laboratory
7. Practice principles of laboratory safety and infection control
8. Practice the correct procedures and techniques in obtaining blood and other specimens for analysis in the clinical laboratory
9. Demonstrate how to prepare specimens for distribution to clinical laboratory departments
10. Demonstrate use and care of laboratory equipment
11. Demonstrate correct procedure for performance of an electrocardiogram (ECG)

Course Descriptions

Introduction to Phlebotomy

This course is the theory component of the collection of blood specimens by venipuncture and skin puncture. It also includes the introduction to the program and roles and responsibilities of MLA's.

Learning Outcomes

At the end of the course the student will be able to:

1. Describe roles and responsibilities of MLA's in public and private sector
2. Describe the correct procedures and techniques for collection of blood including preparation and instruction of patients; care of patients before, during and after procedure, including conditions and complications which may arise

Practical Skills

This course, delivered on Saturdays in the Biology lab, and on site (hospital and community labs), is the application of theory learned in classroom sessions. There is an integrated clinical component where, from October until February, students will be assigned a placement in two working laboratories (one hospital site and one community site). The program requirement is to complete 7.5 hours per month, alternating sites monthly. Students will attend at both sites in February.

Learning Outcomes

At the end of the course the student will be able to:

1. Demonstrate the ability to use correct procedures and techniques in obtaining specimens for analysis; protocols and procedures for processing, transporting and storing specimens; correctly using and maintaining lab equipment
2. Demonstrate the skills required to obtain blood specimens

Lab Safety Theory

This course includes the terms associated with control of microbiological populations; properties of microbes in the workplace; mechanisms of disease transmission; and methods of protection against and prevention of diseases (infection control).

Learning Outcomes

At the end of the course the student will be able to:

1. Describe the theory behind the principles of lab safety and infection control including;
 - Safe use of equipment in the lab
 - WHMIS overview
2. Demonstrate knowledge of requirements for transport of specimens (TDG)

Specimen Handling

This course covers the preparation of specimens in the areas of hematology, chemistry, immunohematology, microbiology, cytology and histology and provides directions to patients, aliquoting, processing and handling of non-blood specimens are included.

Learning Outcomes

At the end of the course the student will be able to:

1. Demonstrate ability to prepare specimens for distribution to clinical laboratory departments for analysis
2. Identify and demonstrate the collection of specimens in appropriate collection tubes relating to area
3. Demonstrate knowledge and skills necessary for the collection of specimens other than blood
4. Demonstrate the labelling and handling of the specimens
5. Demonstrate knowledge of a test library for obtaining information required to collect and handle specimens

Anatomy & Physiology

This course provides an overview of the anatomy and physiology of the human body with a major focus on the major body systems and related disorders and diagnostic tests. These would include the cardiovascular, lymphatic/immune, endocrine, reproductive, urinary, respiratory and digestive systems. Test library, medical terms and conditions, and laboratory terms and measurements are covered.

Learning Outcomes

At the end of the course the student will be able to:

1. Demonstrate knowledge of the human body systems and some major functions and related blood tests relevant to the body systems
 - a) Identify the 11 body systems and describe their primary functions and structures
 - b) Identify the primary diseases and disorders relevant to each body system
 - c) Identify the Medical Lab tests associated with each system's diseases and disorders
2. Demonstrate understanding of terminology and special situations to consider in specimen collection
3. Define and use correct terminology and measurements used in the lab

Electrocardiology

This course introduces the anatomy and physiology of the heart and electrical conduction system of the heart. It teaches the theory, knowledge and skills necessary to conduct select tests and procedures.

Learning Outcomes

At the end of the course the student will be able to:

1. Describe the anatomy of the heart to increase understanding of the functioning of the heart
2. Identify and describe the electrical conduction system of the heart
3. Use cardiac testing procedure and technologies to assist in the assessment of heart function
4. Identify normal and abnormal heart rhythms to determine arrhythmias

Workplace Communication

This course covers how to use effective communication skills with patients and members of the health care team including written communication, and an overview of conflict resolution. It also discusses medicolegal and ethical terms; requirements for documentation; knowledge of patients' rights; requirements for finding of liability; and application of knowledge to situations which may occur in the health care setting.

Learning Outcomes

At the end of the course the student will be able to:

1. Demonstrate effective communications skills with patients and members of the health care team (verbal, non-verbal, and written)
2. Define and demonstrate knowledge of medicolegal and ethical terms as they may apply to the MLA
3. Outline requirements for documentation
4. Demonstrate knowledge of patients' rights
5. Demonstrate knowledge of requirements for the finding of liability
6. Demonstrate the ability to apply the knowledge of medicolegal and ethical issues to situations which may occur in the health care setting

Practicum

The Practicum component provides an opportunity to apply the skills and knowledge acquired during the program. It gives students first-hand experience in both private and public sector labs. The four week, full-time, day-time practicum is held from late March to April. Practicum sites are arranged by Camosun College.

Learning Outcomes

At the end of the course the student will be able to:

1. Apply the skills and knowledge acquired during the MLA Program, in a safe and professional manner
2. Perform the role of the MLA in hospital and private clinical laboratories and within the context of the health care system
3. Follow legal and ethical guidelines in performance of duties as a MLA
4. Demonstrate effective communication skills with patients and members of the health care team
5. Perform duties in a manner that assures and improves quality health care
6. Use knowledge of human anatomy and physiology to perform tasks in a safe and appropriate manner
7. Define and use correct terminology related to measurements used in the laboratory
8. Practice principles of laboratory safety and infection control
9. Practice the correct procedures and techniques in obtaining blood and other specimens for analysis in the clinical laboratory
10. Demonstrate how to prepare specimens for distribution to clinical laboratory departments
11. Demonstrate use and care of laboratory equipment
12. Demonstrate correct procedure for performance of an electrocardiogram (ECG)

Admission Requirements

Prospective students must submit proof of:

- Completed Grade 12 graduation *or* equivalent;
- Letter grade of “C” or higher in English 12 *or* assessment;
- Letter grade of “C” or higher in Camosun Math 053 or Math 10 (Principles) or Foundations of Mathematics and Pre-calculus, Grade 10 *or* assessment;
- Keyboarding to a minimum of 40 net words* per minute within the last six months prior to application. Test must be from a recognized organization and show gross words, timing, errors, etc. **The Medical Lab Program deducts two points per error if gross words plus errors are submitted.*

And proof of one (1) of the following:

- Letter grade of “C+” or higher in Camosun College’s Medical Terminology course, or another Medical Terminology course with a minimum of 60 hours; **or**
- Letter grade of “C” or higher in a Human Biology course (e.g. Biology 12); **or**
- Minimum of six months paid or volunteer work or education in a health care field.

Missing the admission requirements? We can help.

Call Enrolment Services for more details: 250-370-3550 or 1-877-554-7555 (toll free)
or email: info@camosun.bc.ca

Program Participation Requirements

Criminal Record Check

Due to new legislation that came into effect January 2011, every registered student who has practicum/clinical placement involving work with children and/or vulnerable adults must undergo a criminal record check (CRC) through the Criminal Record Review Program. Students must have a Criminal Record Check done through the college and a clearance letter is required before students can work with children and/or vulnerable adults in this program. Information about how to apply for the appropriate CRC will be provided by the college. Any CRC done outside the college will NOT be accepted.

Health Considerations

The work environment in which the Medical Laboratory student/graduate will be employed requires lengthy periods of time standing and bending and extensive hand-washing. Any prospective students with back, neck, or arm injury or serious skin disorders such as psoriasis, eczema, dermatitis or latex allergy should consider carefully before making application to this program.

As in most health care professions you are in close contact with infectious diseases.

Students with significant health challenges are advised to discuss concerns with their physician and to consult with the Program Coordinator at 250-370-4785.

Hepatitis B and the flu vaccine are highly recommended and are available at your local health clinic or through your physician.

Program Costs

Tuition

Program tuition: \$4,950 (2011, *subject to change*). HST is not applicable for this program.

Includes: All lab supplies, course materials, practicum placement, worksite clinical placement, program support, guest speakers, Camosun support (Learning Skills and Disability Resource).

- A \$500 non-refundable registration deposit (due by the date indicated on the letter offering you a seat and applied to your tuition)
- Balance will be due approximately 3 weeks prior to the start of the program (*date to be announced*).

You must meet payment dates or you will forfeit your seat and must reapply.

Financial aid may be available, please refer to separate handout for information on external awards, scholarships and bursaries.

Other costs (not included)

Application fee (non refundable)	\$35.70*
Textbook	\$75 (approx.)
Uniforms (2)	\$50 (approx.)
Criminal Record Check	\$20 - \$50 (approx.)
Hep B Vaccine	\$100 (approx.)

*Effective September 1, 2011 the application fee will be \$36.41.

Refund Policy

Note that a "Special Refund Policy" applies to this program.

- A 100% refund, less the \$500 non-refundable registration deposit, is provided up to fourteen (14) calendar days prior to the start date of the program.
- No refunds are provided after this unless approved by the Program Coordinator.

Application Procedures

The College application form (Application for Admission) can be found at:
<http://camosun.ca/documents/application-form.pdf>.

Please note that this program is highly subscribed.

When to Apply

- You may apply for this program at any time.
- **If you live outside of Victoria, please indicate on your application if you are intending to commute, and wish to be assigned to a Practicum site up-Island.**
- Please note that an application to the College is not equivalent to a registration.
- You may submit the admission requirements all at once, or one at a time.
- Once your application is received and your admission requirements are assessed, you will be sent a confirmation letter indicating your Application Status.

Applicant Status

- Your application is “Incomplete” until you submit all program admission requirements.
- Your application is “Qualified” when you have met and submitted **all** of the admission requirements. Your application will be dated according to when it becomes “Qualified”.
- “Qualified” means that you are now **eligible** to be offered a seat in the program.
- Seat Offers will be made to “Qualified applicants in date order according to region.

Seat Offers

- Seat offers are sent out by early March for the Fall intake.
- Seat offers are based on the allocation of practicum placements for that intake. This changes slightly each year, and we make adjustments accordingly.
- There are 28 seats in the program. Typically, 20-22 seats of those seats are taken by Victoria residents. The remainder are taken by students from north of the Malahat.
- We offer seats to the first 28 people on our “Qualified” list according to where the person will be living during the program.

Victoria:

- Students based in Victoria will be offered seats based on practicum placement within Greater Victoria.
- If the address on your application is north of the Malahat but you have informed us that you intend to reside in Victoria during the program, you will be assigned a practicum placement in Greater Victoria

North of the Malahat:

- Students that are based north of the Malahat will be offered seats based on a commitment to accept practicum placement in that region.
- We endeavour to place students as close to home as possible.
- Applicants from Mill Bay to Nanaimo who will be commuting to class in Victoria will be offered a seat based on a practicum placement in that region
- Applicants from north of Nanaimo who will be commuting to class in Victoria will be offered a seat based on a practicum placement as far north as Campbell River

What if I Don't Get In?

- All "Qualified" applicants will remain on that list until a seat becomes available.
- If you wish to withdraw your application, please let us know so that others can be offered a seat sooner.
- Applications that do not become "Qualified" within 12 months of submission will become inactive and must be re-submitted including application fee. If you have applied, but are still working towards obtaining the program admission requirements, please let us know within one year of when you applied.

High school students: If you are applying to come to Camosun directly from high school, but don't have your final grades, special application dates apply. Contact your counsellor or Camosun College's Enrolment Services, 250-370-3550 or info@camosun.bc.ca.

How to Apply

Step 1: Fill out a College Application and include the \$35.70* non-refundable application fee.

Step 2: Attach documented proof of all Admission Requirements.

Step 3: Submit your application by mail or in person to:

**Effective September 1, 2011 the application fee will be \$36.41.*

Enrolment and Admission Services
Lansdowne Campus, Camosun College
3100 Foul Bay Road
Victoria, BC V8P 5J2

Further Program Information

Continuing Education and Contract Training

Phone: 250-370-4578 or Email: cectinfo@camosun.bc.ca

Application Inquiries

Enrolment and Admission Services

Phone: 250-370-3550 or Email: info@camosun.bc.ca

Toll-free: 1-877-554-7555 (Canada only)

Camosun College reserves the right to modify or cancel any program, course, timetable or objective without notice.

Frequently Asked Questions

What is the Current Wage Rate?

Hospital Labs (HEU)		Community Labs (BCGEU)	
\$21.17 hr.	2009-2010	\$19.31-\$23.21 hr.	Jan 2009

How long is the Camosun Program?

7 months of part-time studies *plus* 4 weeks of full-time practicum. Practicums are arranged by Camosun at both hospital and community sites and must be completed in the designated time period. The program begins in September and finishes in April.

Are there health considerations for someone thinking about entering this profession?

As a Medical Laboratory Assistant you must wear gloves while performing the procedures and will also wash your hands frequently using soap. Some people with skin disorders find the wearing of latex and other types of protective gloves, and the frequency of hand washing worsens their condition. Those with latex allergies will encounter exposure to latex products.

You are also on your feet and bending forward a good deal of the time so good back health is important.

As in most health care professions you are in close contact with infectious diseases.

Any prospective students with back, neck, or arm injury or serious skin disorders such as psoriasis, eczema, dermatitis or latex allergy should consider carefully before making application to this program. If any of these are concerns for you we suggest you discuss this with your physician. Dexterity

Hepatitis B and the flu vaccine are highly recommended and are available at your local health clinic or through your physician.

How do I obtain experience with phlebotomy (taking blood)?

During the Med Lab program you will serve as a practice client for your classmates; all students will perform phlebotomy procedures related to the practice of the Med Lab Assistant on each other. You are closely supervised by experienced instructors and their assistants while performing these procedures as part of the Practical Skills course.

Is there any flexibility around the time I do my full-time practicum?

The practicum is scheduled for you taking into consideration the needs of the practicum providers and college procedures. The practicum *must* be completed in the time period scheduled for the program – individual schedules cannot be accommodated. It is always full-time during the site's operating hours.

How much homework will I have?

Most students spend between 8 and 15 hours/week studying for quizzes and exams, and completing assignments, although it can be more or less hours depending on your study skills, familiarity with the material from previous experiences, etc.

Does the Camosun Medical Laboratory Assistant program prepare students to become certified?

There are two certification organizations: the provincial society, BCSLS (British Columbia Society for Laboratory Science) and the national society, CSMLS (Canadian Society for Medical Laboratory Science). When a student graduates from our program (or other recognized program on the list approved by BCSLS), they are automatically certified by BCSLS. Currently there is no exam; they just have to apply, send a copy of their graduation certificate and pay dues. Certification in BC is not linked to future payment of dues.

Students can also apply to write the exam with the CSLMS after completing the program and remain certified nationally as long as they pay their association dues.

Important Numbers

Camosun Academic Advising 250-370-3550
www.camosun.ca/services/advising

Camosun Assessment Centre 250-370-3597
camosun.ca/services/assessment

Camosun Keyboarding Assessment..... 250-370-4565
camosun.ca/learn/programs/business.html

Valerie Montaque, Program Coordinator 250-370-4785
Medical Laboratory Assistant Program
Camosun College

BC High School Transcripts, Ministry of Education 250-356-7269
www.bced.gov.bc.ca/transcript. Regardless of when you graduated high school,
a copy of your transcript is still available.

Outside BC:
Call your high school or the local school board and they will send you a copy at minimal cost.
Regardless of when you graduated high school, a copy of your transcript is still available.

LifeLabs Med Lab Hiring, Sue Newell.....250-881-3109 (switchboard, leave message)

Vancouver Island Health Authority (VIHA) Med Lab Hiring, Deb Buxcey 250-370-8284

Hep B Clinics Up-Island (the largest ones):
Duncan..... 250-709-3050
Nanaimo..... 250-740-6940
Comox..... 250-338-1711