ORIGINAL COURSE IMPLEMENTATION DATE: January 2026

REVISED COURSE IMPLEMENTATION DATE:

COURSE TO BE REVIEWED (six years after UEC approval)**:** April 2031

Course outline form version: 28/10/2022

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: MLA 04	**Number of Credits:** 0 Course credit policy (105)
Course Full Title: Laboratory Fundamentals **Course Short Title:** Laboratory Fundamentals	
Faculty: Faculty of Education, Community, & Human Dev.	**Department (or program if no department):** Continuing Education

Calendar Description:

Focuses on how to accurately prepare and test diagnostic samples, use laboratory equipment, and prepare testing reagents within a quality system. This includes loading of laboratory analyzers and staining specimen slides for analysis.

Prerequisites (or NONE):	MLA 01, MLA 02, and MLA 03.
Corequisites (if applicable, or NONE):	NONE
Pre/corequisites (if applicable, or NONE):	NONE

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number: **N/A**

Cross-listed with: **N/A**

Equivalent course(s): **N/A**

(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar	30
Tutorials/workshops	15
Supervised laboratory hours (science lab)	15
Total hours	**60**

Scheduled Laboratory Hours

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

Course Details

Special Topics course: **No**

(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**

(See policy 207 for more information.)

Grading System: **Letter grades**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Annually**

Maximum enrolment (for information only)**: 24**

Prior Learning Assessment and Recognition (PLAR)

PLAR cannot be awarded for this course because:

This is a course in a non-credit certificate program that relies on in-class experience and training.

Transfer Credit *(See bctransferguide.ca.)*

Transfer credit already exists: **No**

Submit outline for (re)articulation: **No**

(If yes, fill in transfer credit form.)

Department approval	**Date of meeting:**	
Faculty Council approval	**Date of meeting:**	February 21, 2025
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	April 25, 2025

Learning Outcomes *(These should contribute to students' ability to meet program outcomes and thus Institutional Learning Outcomes.)*

Upon successful completion of this course, students will be able to:

1. Demonstrate critical thinking skills in a laboratory environment.
2. Participate in the laboratory quality system.
3. Use laboratory equipment as required to process patient samples or make laboratory reagents.
4. Prepare specimen slides.
5. Stain specimen slides with various staining techniques.
6. Load samples onto laboratory analyzers.

Recommended Evaluation Methods and Weighting *(Evaluation should align to learning outcomes.)*

Assignments:	20%	Quizzes/tests:	25%	%
Lab work:	40%	Final exam:	15%	%

Details:

A passing grade of 80% must be obtained prior to advancing to the next course.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Instructional Methods *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Lectures, online instruction, presentations, hands-on laboratory practice.

Texts and Resource Materials *(Include online resources and Indigenous knowledge sources. Open Educational Resources (OER) should be included whenever possible. If more space is required, use the Supplemental Texts and Resource Materials form.)*

	Type	Author or description	Title and publication/access details	Year
1.	Textbook	McCall, R.	Phlebotomy Essentials	2023
2.				
3.				
4.				
5.				

Required Additional Supplies and Materials:

Scrubs, lab coat, hospital approved footwear, safety glasses.

Course Content and Topics

- Change management
- Identifying and reporting safety events
- Laboratory measurements
- Staining
- Slide preparation
- Loading analyzers