



**2002-2003**

**CAREER PLANNING GUIDE**

**Medical Laboratory Technology**

Columbia Basin College and Wenatchee Valley College

**Columbia Basin College**  
 2600 North 20th Avenue  
 Pasco, WA 99301  
 509-547-0511, X2478

**Wenatchee Valley College**  
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[www.wvc.ctc.edu/mlt2.asp](http://www.wvc.ctc.edu/mlt2.asp)

**Average Length of Program:**  
 135 Credits, Eight Quarters

**Completion Award:** A.T.S. Degree (WVC)

**Enrollment:** Spring Quarter of the First Year

**Placement Test:** Math and English Placement Test

**Approximate Quarterly Cost:** (subject to change without notice)

Resident Tuition and Fees	\$ 670
Nonresident Tuition and Fees	\$ 825
Parking fee	\$ 10
Books	\$ 220
Technology fee	\$ 10
Lab fees	\$ 15
Supplies and Equipment ( <i>eight quarters</i> )	\$ 250
Malpractice Insurance	\$ 5
National Certifying Exams ( <i>ASCP &amp; NCA</i> ) ( <i>paid once during second year</i> )	\$ 210
Immunizations	\$ 225

**Program Description**

In the world of tomorrow, many opportunities await those choosing careers in medicine and science. One of the most rewarding is medical laboratory technology. As members of the medical team, medical lab technicians (MLTs) work side-by-side with medical technologists and pathologists, spending comparatively little time with patients. They perform the hundreds of laboratory procedures that help ferret out the cause and cure of disease. They are the physician's fact-finders, tracing the elusive clues to illness through samples of body tissues and fluids.

MLTs make use of a battery of computerized precision instruments in their testing - electronic cell counters, chemistry analyzers, pipets, bacterial culture media, flasks, test tubes and recently developed DNA technology, such as the polymerase chain reaction. They rely on modern testing procedures, and the proven principles of quality management as they explore the composition of blood and other fluids, detect the microorganisms of infections, trace the enzyme levels of heart and liver disease, identify the unique antibodies of dozens of diseases, and perform a fascinating variety of other important services to medicine.

The MLT program is available in the Tri-Cities area through a cooperative arrangement with the parent program at Wenatchee Valley College, Columbia Basin College (CBC - Pasco, WA), TriCities Laboratories (TCL), and other area laboratories. The agreement allows students to take ALL of their classes toward an MLT degree in the Tri-Cities area (pending space available). The first three quarters are primarily taken at CBC except for three one credit MLT courses, necessitating registration at both colleges during these three quarters (see course listing on reverse side). MLT students in the Tri-Cities are classed as (Liberal Arts) students, and they register for classes on a "space available" basis.

The last four quarters of the program are spent learning more on campus, and training in medical laboratory facilities in the Tri-Cities area. The clinical, on-the-job, training sites occurs in the laboratories of - Kadlec Medical Center, Kennewick General Hospital, Our Lady of Lourdes Health Center, TCL Core Laboratory in Kennewick, and others. The lecture and laboratory classes during the second year are taught by the use of audio visual materials, and/or live interactive TV classes held on the CBC campus. Registration for these final five quarters is through Wenatchee Valley College. The entire program is eight consecutive quarters in length, and at the conclusion of the course graduates receive an associate degree, and must take a national certifying examination.

**Career Opportunities** - Career opportunities for MLTs are good with graduates who have successfully completed the national exam, able to work in almost any state (exception California; also a few states require passing their own unique certifying exam). Graduates work in laboratories in hospitals, clinics, reference, industrial, food processing and research areas.

## Suggested Course of Study

**Consult Registrar's Office at  
WVC for Application Materials**

### MEDICAL LABORATORY TECHNOLOGY

**A.T.S. (Associate of Technical Sciences) Degree: Wenatchee Valley College**

#### Admission Requirements:

- High school graduation or equivalent (GED)
- GPA (most recently earned): High school GPA of 2.5 **or** a cumulative college GPA of 2.5 with at least 15 quarter credits
- Completion of one year of high school algebra with a grade of C (2.0) or better, **or** the CBC equivalent - Math 91
- Completion of one year of high school chemistry and one year of high school biology with grades of 2.0 or better, **or** the CBC equivalent Chem. 100 and Biol. 100 or 110 or 111 (see note on next line)
- Completion of Biol. 111 with a grade of C or better (as a prerequisite to the first quarter in Anatomy and Physiology (A-P 221), and General Microbiology (MBiol 260)
- Submission of MLT program application to **Wenatchee Valley College** (see Note below);
- CBC is NOT involved in the admission process - only **WVC**
- This blank form will be sent to all accepted applicants. Students will be required to have a test for color blindness.

**Note:** Applications for the MLT Program are available from the Registrar's Office at **WVC** – 877-982-4968 (*toll free!*), Ext. 2223, and must be submitted to the WVC Registrar's Office. Admission to the MLT program is offered by **WVC** to the first qualifying applicants. An Interview in TriCities is required during the first Spring Quarter, prior to admission to the fourth quarter of the first year. The successful applicant will have all application materials on file in the WVC Registrar's Office, and successfully complete the Interview process. Official transcripts from high school and college are required, and must be sent to the **WVC Registrar**.

### FIRST YEAR

		Credits
<b>Fall Quarter</b>		
MLT 100*	Intro. to MLT	1
CHEM 110/110.1	Gen. Chemistry	5
Biol 221/221.1	Anatomy & Phys. I	6
OTC 147	Medical Terminology	5
		17
<b>Winter Quarter</b>		
MLT 101*	Intro. Seminar	1
CHEM 120/120.1	Organic Chemistry	5
BIOL 222/222.1	Anatomy & Phys. II	6
ENGL 101	English Composition	5
		17
<b>Spring Quarter</b>		
MLT 102*	Intermed. Seminar	1
BIOL 260/260.1	General Microbiology	6
PSYCH 101	Intro. to Psychology	5
SPCH 110	Communication Behavior	5
		17
<b>Summer Quarter</b>		
MLT 150	Basic Lab Theory	4
MLT 151	Basic Lab Practice	3
General Elective (optional)		5
		12

### SECOND YEAR

		Credits
<b>Fall Quarter</b>		
MLT 210	Clinical Experience I	12
MLT 213	Hematology & Coagulation	6
MLT 214	Hematology & Coagulation Lab	3
		21
<b>Winter Quarter</b>		
MLT 220	Clinical Experience II	12
MLT 223	Clinical Microbiology	6
MLT 224	Clinical Microbiology Lab	3
		21
<b>Spring Quarter</b>		
MLT 230	Clinical Experience III	12
MLT 233	Clinical Chemistry & Urinalysis	6
MLT 234	Cl. Chemistry & Urinalysis Lab	3
		21
<b>Summer Quarter</b>		
MLT 240	Clinical Experience IV	12

#### 138 TOTAL CREDITS FOR GRADUATION

- A 2.0 must be maintained quarterly in every subject before proceeding to the next quarter.
- \* All classes prefixed "MLT" are taken by registering each quarter with Wenatchee Valley College. MLT classes 100, 101 and 102 are correspondence courses.
- Optional Elective classes might include a Computer Applications and/or Spanish class. **5/02**