

Medical Laboratory Technology

• Associate of Technical Science Degree

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, technicians work side-by-side with medical technologists and pathologists and often have contact with patients. Medical laboratory technicians (MLTs) perform a great variety of scientific laboratory procedures that aid in the detection, diagnosis and treatment of disease. This program is accredited by the prestigious National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

In addition to employment in medical laboratories, graduates pursue positions in research, industry or veterinary laboratories, and as medical supply and equipment sales specialists.

The MLT program is usually completed in eight quarters, but may be completed sooner if you have a strong academic background. Entry into the second year is on a competitive basis. You will be considered for the second year of the MLT program during the third (spring) quarter of the first year. During the first year, you will take general education courses and specialized medical laboratory courses designed to provide a solid base for the second year of on-the-job training. The second year consists mostly of on-site training in medical laboratories, plus theory courses. Travel to distant training facilities may be required, and work on a variety of shifts may be necessary; therefore, **the use of an automobile is required**. You must maintain a GPA of 2.0 (C) or better in all MLT program courses.

As a result of completing the MLT program, you will obtain a background in general college courses, especially the sciences, and develop the important employable skills required to perform medical laboratory testing.

The regional program includes training at distant sites through agreements with Big Bend Community College, the Community Colleges of Spokane, Columbia Basin College, Walla Walla Community College and others. See the Wenatchee Valley College Medical Laboratory Technology information, available on the college Web pages (www.wvc.edu/go/mlt), for the suggested course sequence at each regional site.

Selection to the fourth quarter of the first year of the program:

Selection to the fourth quarter of the first year of the program occurs during spring quarter. You must either have completed or be currently enrolled in all of the courses required in the first three quarters of the program with a GPA of 2.0 or greater in each course (as listed on the following page or in the aforementioned regional Web pages) in order to be considered for this selection process. You must successfully complete the fourth quarter before being permitted to continue with the second year of the program. An interview may be a part of the acceptance criteria. The number of positions available in the fourth quarter is dependent on the number of clinical training sites available.

Prerequisites:

- All prerequisite courses must be completed with a grade of "C" (2.0) or higher.
- High school transcripts (showing graduation date) or GED certificate.
- MATH 096 Elementary Algebra or equivalent or appropriate assessment score required prerequisite for CHEM& 121.
- BIOL& 211 Majors Cellular (*formerly BIOL 121*) (Prerequisite: CHEM& 121 (*formerly CHEM 110*)) is strongly recommended

Note: Conviction of certain crimes may prevent completion of the clinical course requirements of the program and may prevent future employment in health care. A criminal record check is required prior to any clinical training experience or clinical field trips. If you have a criminal record, you should meet with the associate dean of allied health to determine if the criminal history would prevent access to a health care facility.

Immediately following acceptance to an allied health program you must fulfill the following requirements:

- Provide a current Health care Provider CPR card. The CPR card must be issued by a person or facility qualified specifically to instruct CPR for healthcare providers.
- Provide documentation of immunizations (for complete list go to www.wvc.edu and visit the allied health pages)
- Provide verification of major medical insurance (accident/injury) for participation in clinical learning experiences. You should expect to pay an additional fee for this mandatory student insurance, unless you are currently covered by an insurance carrier and can provide proof of insurance. Students have the option to purchase the Washington State Community College insurance (approximately \$45 per quarter).
- Provide background check information to provide clearance for participation in required clinical learning experiences.
- Provide results of a negative drug screen.

- Complete the Allied Health packet, which includes several forms: student disclosure form, a child and adult abuse information act disclosure statement, medical record form, student release form and student confidentiality form.
- Liability insurance is calculated into tuition and fees at the time of registration.

Note: Required documents are to be submitted to the allied health office located on the second floor of Wenatchi Hall, room 2221.

Regional MLT Program

The entire two years of the program need not be taken on the Wenatchee campus; some courses can be taken through Wenatchee Valley College at Omak, Big Bend Community College (Moses Lake), Columbia Basin College (Pasco), Spokane Community College or Spokane Falls Community College, Walla Walla Community College, Blue Mountain Community College (Pendleton, Oregon), and others.

During the second year of the program, students from Okanogan or Moses Lake regions must join with all the Wenatchee students and take MLT 150 and 151 on the Wenatchee campus. You are usually able to take all other required courses totally within your regional area and are not required to take any courses in Wenatchee. Clinical training during the second year is available in medical laboratories in the areas surrounding each area where the program is available. The lectures (MLT 213, 223 and 233) and labs (MLT 214, 224 and 234) during the second year are taught by the use of either videotapes and audiovisual materials or in live interactive TV classrooms. (If you are a Moses Lake- or Omak-area student, you will train in both Moses Lake or Omak and Wenatchee during the second year.) Registration for the final five quarters is only through Wenatchee Valley College. At the conclusion of the program you will be qualified to take a national certifying examination (ASCP or NCA).

For specific courses offered at each location, log on to the college Web site at www.wvc.edu/go/mlt. Specific information regarding application to the program is available at this site as well.

Suggested Course Sequence: Associate of Technical Science Degree Program

Offered at the Wenatchee and Omak campuses

First Year—On Campus

| Fall Quarter | | Credits |
|----------------|---|---------|
| BIOL& 241 | Human A and P I..... | 5 |
| | <i>(formerly BIOL 221, Human Anatomy and Physiology I)</i> | |
| CHEM& 121 | Introduction to Chemistry..... | 5 |
| | <i>(formerly CHEM 110, Survey of Inorganic Chemistry)</i> | |
| MLT 100 | Introduction to Medical Lab Technology ... | 1 |
| HCA 113* | HIV/AIDS Education..... | 1 |
| HLTH 123 | Medical Terminology..... | 3 |
| Winter Quarter | | |
| BIOL& 242 | Human A and P II..... | 5 |
| | <i>(formerly BIOL 222, Human Anatomy and Physiology II)</i> | |
| CMST& 101, 210 | or 220** Communications..... | 5 |
| | <i>(formerly COMM 102, 105, 220)</i> | |
| ENGL& 101 | English Composition I^..... | 5 |
| | <i>(formerly ENGL 101, Composition: General)</i> | |
| MLT 101 | Introductory Seminar..... | 1 |
| Spring Quarter | | |
| BIOL& 260 | Microbiology..... | 5 |
| | <i>(formerly BIOL 223, Microbiology)</i> | |
| CHEM& 131** | Introduction to Organic Biochemistry..... | 5 |
| | <i>(formerly CHEM 111, Survey of Organic/Biochem)</i> | |
| MLT 102 | Intermediate Seminar..... | 1 |
| PSYC& 100 | General Psychology <i>or</i> | |
| | <i>(formerly PSYC 101, Introduction to Psychology)</i> | |
| PSYC 102 | Psychology of Adjustment..... | 5 |

| Summer Quarter (Wenatchee campus) | |
|-----------------------------------|--------------------------------|
| MLT 150 | Basic Laboratory Theory..... |
| MLT 151 | Basic Laboratory Practice..... |
| Elective*** | Optional..... |
| Total | |
| 54-59 | |

Second Year—On and Off Campus

| Fall Quarter | | Credits |
|--------------|----------------------------|---------|
| MLT 210 | Clinical Experience I..... | 12 |
| MLT 213 | Hematology..... | 7 |
| MLT 214 | Hematology Lab..... | 3 |

| Winter Quarter | |
|----------------|--------------------------------|
| MLT 220 | Clinical Experience II..... |
| MLT 223 | Clinical Microbiology..... |
| MLT 224 | Clinical Microbiology Lab..... |

| Spring Quarter | |
|----------------|--|
| MLT 230 | Clinical Experience III..... |
| MLT 233 | Clinical Chemistry and Urinalysis..... |
| MLT 234 | Clinical Chemistry and Urinalysis Lab..... |

| Summer Quarter | |
|---------------------------------|-----------------------------|
| MLT 240 | Clinical Experience IV..... |
| Total | |
| 78 | |
| Total Credits for Degree | |
| 132-137 | |

^Prerequisite required.

*HCA 113 qualifies as the Washington state-mandated seven hours of training in HIV/AIDS education. This is not required if you have completed this training and can verify with a certificate of completion.

**WVC at Omak only: switch CMST& 210 to spring quarter and CHEM& 131 to winter quarter.

***The following courses are recommended as electives: BIT 100, BIT 105.