



# Medical Laboratory Science

Major Preparation Sheet 2016-2017

## Medical Laboratory Science —What is it?

With high precision microscopes and analyzers, Medical Laboratory Scientists use the scientific method in laboratories to conduct tests on blood, tissue and fluids of the human body. The test results are used by physicians and other medical professionals to detect, diagnose, monitor and treat disease.

### Areas of study in Medical Laboratory Science:

Chemistry, Microbiology, Coagulation, Hematology, Immunology, Virology, Body Tissues and Fluids, Specimen Processing, Clinical Testing Methods and Interpretation, Information Systems Management, Safety and Regulations, and Professional Ethics.

## Where do I start?

You will complete an Associate of Science-Transfer (AS-T) Track 1 at Shoreline.

Use the AS-T Track 1 **Degree Planning Guide** to understand the requirements for graduation.

Once you complete your Shoreline degree, you can transfer to a four-year school to earn a Bachelor of Science (B.S.) in Medical Laboratory Science.

**Another pathway option** is Shoreline’s Associate in Applied Arts and Sciences AAAS in Medical Laboratory Technology. This two-year degree leads to a technician level employment license, but does not transfer to a university. For more information, visit <http://www.shoreline.edu/medlabtech/>.

## Where can I go for help?

### Instructional Faculty Advisors

<b>Linda Kuehnert</b>	206-546-4575	<a href="mailto:lkuehner@shoreline.edu">lkuehner@shoreline.edu</a>	Rm 2821
<b>Dave Phippen</b>	206-546-4572	<a href="mailto:dhippen@shoreline.edu">dhippen@shoreline.edu</a>	Rm 2817
<b>Torrey Stenmark</b>	206-546-4505	<a href="mailto:tstenmark@shoreline.edu">tstenmark@shoreline.edu</a>	Rm 2823
<b>Amar Yahiaoui</b>	206-546-4738	<a href="mailto:ayahiaou@shoreline.edu">ayahiaou@shoreline.edu</a>	Rm 2820
<b>Guy Ting</b>	206-546-4576	<a href="mailto:gting@shoreline.edu">gting@shoreline.edu</a>	Rm 2822
<b>Joyce Fagel</b>	206-546-6984	<a href="mailto:jfagel@shoreline.edu">jfagel@shoreline.edu</a>	Rm 5229

### General Academic Advising

FOSS (5000) Building, Rm. 5229  
206-546-4559  
[advising@shoreline.edu](mailto:advising@shoreline.edu)  
[www.shoreline.edu/advising](http://www.shoreline.edu/advising)

### International Student Academic Advising

9000 Building, Rm. 9302  
206-546-4697  
[leadvisors@shoreline.edu](mailto:leadvisors@shoreline.edu)  
[www.shoreline.edu/international/advising/](http://www.shoreline.edu/international/advising/)

### Career Planning

[www.shoreline.edu/job-career-services/](http://www.shoreline.edu/job-career-services/)

### For course information and entry codes contact:

[biologyadvising@shoreline.edu](mailto:biologyadvising@shoreline.edu)  
[chemistryadvising@shoreline.edu](mailto:chemistryadvising@shoreline.edu)

## Where can I transfer?

The only school in Washington state school that offers a Bachelor Level Medical Laboratory Science Program is the **University of Washington, Seattle** campus. The Associate in Science Transfer (AS-T) degree is designed to prepare students entrance into a Bachelor of Science (B.S.) program, such as Medical Laboratory Science. The primary focus of the AS-T degree is completion of the necessary math and science requirements for junior standing at Washington state baccalaureate institutions. Students will be required to take additional general education courses after transfer to fulfill university requirements.

## What can I do with a Bachelor’s Degree in Medical Laboratory Science?

Medical Laboratory Scientists develop highly scientific, critical thinking, problem solving, quality assurance and technical skills that can be applied to a number of professions in the health care field. In addition to performing medical tests, Medical Technologists manage departments, consult with other health care professionals, conduct research and teach in hospitals, colleges and universities.

**Potential employers include:** Hospitals, medical centers, medical clinics, private laboratories, public health agencies, colleges and universities. For more, please visit career information and resources at

<http://www.shoreline.edu/counseling-services/career-counseling.aspx>

## What courses should I take?\*

### I. GENERAL EDUCATION REQUIREMENTS | 18 - 20 Credits

ENGL &101  
 ENGL &102, &230, or CMST &101  
 One course in Multicultural Understanding  
 Quantitative/Symbolic Reasoning (MATH &151\*)

### II. DISTRIBUTION REQUIREMENTS | 15 Credits

One course in Humanities  
 One course in Social Sciences  
 A third course in either Humanities or Social Sciences

### III. PRE-MAJOR PROGRAM I 75.5 Credits

INORGANIC CHEMISTRY   19.5 Credits	QTR	GR	CR
CHEM 171/181 <i>Every quarter</i>			6.5
CHEM 172/182 <i>Win, Spr, Sum</i>			6.5
CHEM 173/183 <i>Spr, Sum, Fall</i>			6.5

MATHEMATICS   10 Credit	QTR	GR	CR
MATH &152 <i>Every quarter</i>			5
MATH &163 or 211 <i>Every quarter</i>			5

#### Major Science Sequences

BIOLOGY   15 Credits	QTR	GR	CR	ORGANIC CHEMISTRY   21 Credit	QTR	GR	CR
BIOL &211 <i>Every quarter</i>			5	CHEM &241/271 <i>Fall, Win</i>			4/3
BIOL &212 <i>Win, Spr</i>			5	CHEM &242/272 <i>Win, Spr</i>			4/3
BIOL &213 <i>Spr, Sum</i>			5	CHEM &243/273 <i>Spr</i>			4/3
BIOL &241 <i>Every quarter</i>			5				
BIOL & 242 <i>Every quarter</i>			5				

### More information about programs in Medical Laboratory Science

Admission requirements: BIOL &211-&213, BIOL &170 (or &241 and &242), CHEM 171/181, 172/182, 173/183, &241/271, &242/272, &243/273, MATH &146 or 211 (See footnote below). A minimum 2.0 overall GPA and a 2.0 in prerequisite math and science courses are required.

Applicants must apply to both the Department of Laboratory Medicine and the UW Admissions Office. The application deadline is February 15th. The program admits some international students.

For more information, contact [medtech@u.washington.edu](mailto:medtech@u.washington.edu) or visit the website at <http://depts.washington.edu/labweb/>

The UW requires two years of the same world language in high school or two quarters in college for admission. Non-native speakers of English are exempt.

\* The UW Medical Laboratory Science program requires MATH &146 or 211 for admission. The Associate of Science-Track 1 degree also requires MATH &151, &152. Students who choose not to take the extra math courses can graduate with an Associate in Arts—Individualized Plan (AA-IP) and still be prepared for a major in Medical Laboratory Technology. UW Medical Laboratory Science does not require organic chemistry labs, but Shoreline Chemistry Department does require them with the lecture classes. Additionally, Associate in Science Gen Ed and Distribution courses can be used towards Medical Laboratory Science graduate requirements.

**\*\* This unofficial guide is intended to support you as you prepare for your major Please consult with an advisor and your chosen four-year school(s), as program and admissions requirements vary and may change without notice.**