

Clinical Laboratory Sciences Department Online Bachelor of Science in Medical Laboratory Science

Program Description

The Marshall University Department of Clinical Laboratory Sciences offers an online course of study for Medical Laboratory Technologists (MLT) which leads to a Bachelor of Science degree in Medical Laboratory Science (MLS). Individuals who have obtained the Associate in MLT from Marshall University, or another NAACLS accredited program are eligible for admission into the online BS in MLS at Marshall University. Both full-time and part-time students can be accepted into the BS MLS portion of the program, however, students must complete the BS in MLS within 3 years of entry into junior year prerequisite courses. There are a total of 120-122 credit hours required for completion of the BS in MLS at Marshall University, which can be obtained through courses taken at Marshall University, transfer courses from other colleges/universities, or credits based on documented competencies/proficiency examinations.

Admission Requirements

Applications are accepted at all times throughout the year, however, applications are reviewed and admission is granted primarily before course enrollment periods each term, which is normally in March for summer and fall terms, and October for spring term each year. To be considered for admission into the Marshall University Online Bachelor of Science in Medical Laboratory Science program, applicants must meet the following criteria:

- 1. General application or re-application to Marshall University; online application can be found through this Marshall University Application Link.
- Successful completion of an associate's degree in Medical Laboratory Technology from a NAACLS
 accredited MLT/CLT program. Students applying from NAACLS accredited programs other than
 Marshall University must either submit a letter of satisfactory completion from the MLT program
 director, or submit documentation of MLT/CLT national certification through NCA or ASCP.
- 3. Minimum cumulative GPA of 2.0 prior to admission.

4. Send directly to the MLS Program Director:

- a. Submission of two letters of reference prior to admission, one being the letter of satisfactory completion from the MLT program of the completed NAACLS accredited MLT program.
- b. Letter of application the template is located on our website and can also be obtained by contacting the program director at jennifer.perry@marshall.edu

- c. A copy (not official) of transcripts from all other institutions attended (most importantly, the NAACLS accredited MLT program).
- 5. Send directly to Marshall University Admissions Department along with general university admission application: Submission of official sealed transcripts from all institutions attended to Marshall University Admissions along with application for general admission; we do not do informal transcript reviews as many credits transfer differently from institution to institution only formal evaluation of credits is performed. Official sealed transcripts must be received directly from the institution to MU Admissions; any copies sent to the MLS Program Director cannot be used for university evaluation purposes.
- 6. Marshall University MLT students and students from linked programs: Need only to submit notification via email of letter in the last year of their MLT program of their intention to continue into the online BS in Medical Laboratory Science. Past graduates need to provide their Marshall University 901# and date of graduation from the program.

The online BS in MLS courses are currently limited to 20 - 25 students; admission will be granted to current Marshall University MLT students first who have had continuous enrollment each semester in the program coursework and who have provided written notification of their desire to continue in the during the final year of their MLT program . Further evaluation for placement into the program will be determined based on overall academic performance and references received.

The Marshall University online Bachelor of Science in Medical Laboratory Science does not discriminate against applicants from any geographic region of the USA, however, some states do have statutes and laws that make it difficult, perhaps impossible, for Marshall University to reach a legal distance education agreement with facilities in the state. In addition, clinical agreements with health care facilities in certain states may not be possible due to extreme measures enacted by state organizations to limit learning and career opportunities for qualified MLS students. In order for Marshall University to reach a legal affiliation agreement with a clinical site within a state, the state has to be an approved member of SARA. Please be aware that it may be extremely difficult to successfully secure supervised practice rotations in areas that are not approved members of SARA. Without practice sites or legal distance education agreements between Marshall University and the facility, there is a strong likelihood that you may not complete the required clinical experiences for the MLS program, and not be eligible for graduation. Currently, states that do not participate in SARA are Florida, Massachusetts, and California.

To determine if your state is a member of SARA and to learn more about these reciprocity agreements, please use the following link:

Link: http://nc-sara.org/sara-states-institutions

Coursework/Curriculum

Students transferring from other NAACLS accredited programs must complete equivalent pre-requisite courses to those listed in the MU BS in MLS program in order to obtain a BS from Marshall University, which includes meeting Core Curriculum standards required for sophomore transfer students with greater than 26 credit hours. Sophomore transfer students with 26 or more credit hours must complete one critical thinking (CT) designated course but are exempt from the remaining 6 hours of Core 1. Core II requirements may be fulfilled through a combination of transfer and Marshall credit hours. For more information on Core Curriculum requirements, visit the General Education website.

In addition, MLT courses from other NAACLS accredited programs will be evaluated and course substitution credit will be recorded for 100 and 200 level CLS courses where appropriate by the MU CLS department chair. Under special circumstances where an individual has graduated from an MLT program greater than five years previous, and has not worked as an MLT, proficiency exams may be required in order for substitution credit to be granted for 100 and 200 level CLS courses.

The CLS 300 and 400 level courses of the BS in MLS Program are offered through online course delivery. There are online options for all general non-CLS prerequisite courses offered online through Marshall University. A copy of the curriculum for transfer students as well as the track for Marshall University MLT graduates will be provided to each student depending on which category they fall under. A total of 41 credit hours must be taken from Marshall University in order to obtain the Bachelor of Science degree in Medical Laboratory Science.

For a copy of the current curriculum plans, please visit our website: http://www.marshall.edu/clinical-laboratory-science/students/

Part Time Enrollment Plan

Full time at Marshall University requires that students take a minimum of twelve credit hours each semester. Prerequisite courses, other than CLS courses, in the curriculum may be taken in any sequence and in any combination. Part time enrollment in CLS courses at the MLS level is permitted for working MLTs; however students must take the following courses together and in this sequence:

Fall Semester CLS 460 Laboratory Management and Education Diagnostics 3	CrHrs	Spring Semester 3 CLS 310 Clinical Immunology and Molecular	CrHrs
CLS 499 Seminar in Laboratory Medicine Total Hours	<u>2</u> 5	CLS 466 Diagnostic Physiology Total Hours	<u>2</u> 5
Fall Semester	CrHrs	Spring Semester**** (Final)	CrHrs
CLS 400 Advanced Clinical Chemistry	2	CLS 468 Senior Research/Capstone	2
CLS 410 Advanced Immunohematology	2	CLS 472,473 Advanced Clinical Practicum I & II	6
CLS 420 Advanced Clinical Microbiology	2	CLS 464 Laboratory Instrumentation	<u>3</u>
CLS 430 Advanced Hematology	2	Total Hours	1 1
Total Hours	8		

Once a student has been accepted into the BS in MLS online program, he/she will work together with the chair/program director to outline an acceptable curriculum completion plan.

****CLS courses in this final Spring Semester can only be taken immediately preceding anticipated commencement in May.

Advanced Clinical Practicum/Applied Learning Experiences

As part of assessing clinical proficiency, students will be required to take cumulative online examinations in each discipline and pass with a minimum score of 70%. Students who do not have the minimum 70% on cumulative exams will participate in online remediation projects as part of Advanced Clinical Practicum courses at the end of the program. There is not a full clinical rotation for the online BS in MLS program at Marshall University, rather, students complete required clinical tasks in courses taken in the final semester of the program. Most students in the program are working either full or part-time and can manage the required tasks while working. All students will complete requirements of the CLS 464, Laboratory Instrumentation and CLS 468 Senior Research courses in the clinical practicum setting during the final semester of the BS in MLS program. All students will also be required to complete an on-campus, one day hands-on workshop in Molecular Diagnostics as part of their Advanced Clinical Practicum experience, or provide documentation of recent hands-on clinical experience in this area in a clinical hospital laboratory.

It is the sole responsibility of all admitted MLS students to secure their own clinical site placement for required clinical tasks in the final semester of the program. Students will be required upon admission to the BS in MLS program to initiate the process of clinical site placement and/or the clinical affiliation process with a clinical laboratory in a hospital for advanced clinical experiences and obtain the necessary signed clinical affiliation documentation by mid-term of the semester preceding the students' anticipated advanced clinical practicum – signed clinical affiliations are NAACLS accreditation requirement. All clinical affiliations must be approved by the Program Director. Failure of the student to complete these requirements would make the student ineligible for clinical site placement and would delay, or prevent, graduation from the BS in MLS program.

Cost

Online course fees at Marshall University are very affordable compared with institutions across the nation - for current online tuition visit this <u>link</u>. Additional tuition and fees may apply to courses taken at MU that are not online.

Contact Information

Please send all letters of reference, a copy of other transcripts, and all correspondence for more information regarding the Online BS in MLS Program at Marshall University to:

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Professor, Chair and Program Director
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