

From: [Weaver, Lindy](#)
To: [Reed, Katie](#)
Cc: [Cohen, Anya \(OSUMC\)](#); [Di Tommaso, Lisa \(OSUMC\)](#)
Subject: Informational Item for CAA
Date: Monday, July 7, 2025 5:29:25 PM
Attachments: [MLS Prerequisite Changes 2025.pdf](#)

Hi Katie,

I have a set of recently approved changes for our Medical Laboratory Sciences Program. There are a lot, but they are just changes to both their program level prerequisites and to some of their course level prerequisites. Attached is the file with the approval letter from our curriculum committee, the program's proposal letter and packet.

Thanks!

Lindy



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May 16, 2025

Curriculum Committee
School of Health and Rehabilitation Sciences
The Ohio State University

Dear Dr. Bannerman,

On May 16, 2025, the HRS Curriculum Committee reviewed the proposed changes to the Medical Laboratory Science program and course prerequisites. These changes were approved unanimously with no revision.

Please submit the following items so that we move these changes forward to the university curriculum system:

- All updated syllabi with the new prerequisites reflected
- Old and new program guide with program prerequisite changes reflected
- If there is any other documentation where course or program prerequisites are listed, we will need to see the updated versions (e.g. website, orientation documents, welcome letter, etc.)

We are so grateful for your program's ongoing commitment to teaching excellence. Thank you.

Sincerely,

Lindy Weaver, PhD, MOT, OTR/L
Associate Professor, Clinical
Director, Academic Affairs



THE OHIO STATE UNIVERSITY

Division of Medical Laboratory Science
School of Health and Rehabilitation Sciences

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April 16, 2025

Curriculum Committee
School of Health and Rehabilitation Sciences

Dear Colleagues,

The Medical Laboratory Science (MLS) Division is seeking to update Program and course prerequisites. Below is a brief overview of the rationale for the changes.

Program Prerequisites:

The MEDLBS Program offers students a variety of curriculum track options, each specific course prerequisites that must be met prior to enrolling in a track or completing a course within the program. It has been several years since the prerequisites were reviewed for accuracy, relevance and effectiveness in ensuring success in the program's courses. Upon conducting the review, we identified several changes that would 1) provide additional options for students; and 2) reduce unnecessary courses. Please see the document "Rationale for MEDLBS Program Prerequisite Changes_2025" for further details on updates for each curriculum track and its course prerequisites.

Course Prerequisites:

Like the program prerequisites, the individual course prerequisites were reviewed for accuracy and relevance. Upon conducting the review, we identified changes related towards 1) prerequisite courses; 2) omission of curriculum tracks which would have students enrolled in courses; and 3) omission of an exclusionary clause (we offer courses that may be taken either online or in-person and students may take one or the other, not both). Please see the document "Rationale for MEDLBS Course Prerequisite Changes_2025" for further details on updates for course prerequisites.

Thank you for your consideration of these changes. Please let me know if you require any additional information.

Sincerely,

DocuSigned by:

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Tammy L. Bannerman, Ph.D, D(ABMM)
Medical Laboratory Science, Division Director
Assoc Professor - Clinical

Medical Laboratory Science – Updates to the Program Pre-requisites

Program Pre-requisite	Curriculum Track			
	Certification	Non-certification	MLT-MLS	Graduate
<i>Biology 1113</i>				
- Current	Required	Required	Required	Required
- Updated	No change	No change	No change	No change
<i>Chemistry 1210</i>				
- Current	Required	Required	Required	Required
- Updated	No change	No change	No change	No change
<i>Chemistry 1220</i>				
- Current	Required	Required	Required	Required
- Updated	No change	No change	Remove	No change
- Rationale	The content from Chem 1210 and the MLT chemistry course(s) taken while obtaining the 2-year degree will provide sufficient chemistry content for them to be successful in the MLS chemistry course. In addition, applicants typically do not have Chem 1220 which makes it challenging to get students into the MLT to MLS curriculum tracks.			
<i>Math 1148 & 1149 or 1150 or higher</i>				
- Current	Math 1148 & 1149 or 1150 or higher is required	Math 1148 & 1149 or 1150 or higher is required	Math 1148 or higher	Math 1148 & 1149 or 1150 or higher is required
- Updated	Math 1148 or higher	Math 1148 or higher	No change	Math 1148 or higher
- Rationale	Taking college algebra only (Math 1148) is sufficient for students to be successful in all the curriculum tracks. Students can take higher-level math as desired or required for any post-graduate studies; as a result, increases the options for students.			
<i>Chemistry 2510 and Biochem 4511 OR Biopharm 3311 and 3312</i>				
- Current	Either series is required	Only Chem 2510 and Biochem 4511 is required	Not required	Either series is required
- Updated	No change	Either series is required	No change	No change
- Rationale	Allowing students on the non-certification track to take either series provides more options for them. There are students that begin on the non-certification track and switch to the certification track after the first			

	<p>year. Students can take higher-level chemistry as desired or required for any post-graduate studies; as a result, increases the options for students. Note: the MLT to MLS students are required to take Biochem 2210 vs. this chemistry series. See below.</p>			
<i>HTHRHSC 2500</i>				
- Current	Required	Required	Required	Required
- Updated	No change	No change	No change	No change
<i>Microbiology 4000</i>				
- Current	Required	Required	Not required	Required
- Updated	Microbio 4000.01, Microbio, 4000.02 or Microbio 4100	Microbio 4000.01, Microbio, 4000.02 or Microbio 4100	No change	Microbio 4000.01, Microbio, 4000.02 or Microbio 4100
- Rationale	<p>We are not changing the requirement for a microbiology course. The change is to add all the equivalent options for the current Microbiology 4000 course. In the past, we have had students with the higher microbiology course not being able to enroll in MEDLBS 4000/5000 course. This change will fix the scheduling issue for the students. Note: the MLT to MLS students come to the program with microbiology with a MLT 2-year degree.</p>			
<i>Biochemistry 2210</i>				
- Current	Not required	Not required	Required	Not required
- Updated	No change	No change	No change	No change
<i>Statistics 1350 or 1450</i>				
- Current	Stat 1450	Stat 1450	Stat 1350	Stat 1450
- Updated	Stat 1350 or higher	Stat 1350 or higher	Stat 1350 or higher	Stat 1350 or higher
- Rationale	<p>We currently accept Stat 1350 for all curriculum tracks. This change is to update with current practice. Adding the “or higher” to the tracks provides more options for the students.</p>			

Medical Laboratory Science – Updates to the Course Prerequisites

Online Courses

Course	Narrative	Change of:	
		Class(es) Prereqs/Concur	Add Exclusion
<i>MEDLBS 4000</i>			
- Current	Micrbio 4000.01, and admission to Medical Laboratory Science online MLT Articulation program or Medical Laboratory Science Minor program; or permission of instructor.		
- Update	Admission to Medical Laboratory Science online MLT Articulation program or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 5000.	X	X
- Rationale	Removed 4000.01 as a prerequisite (not required for this course, original course submission error). Students may take either the online or in-person course, not both.		
<i>MEDLBS 4050</i>			
- Current	Admission to Medical Laboratory Science online MLT Articulation Program or Medical Laboratory Science Minor Program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science online MLT Articulation program or Medical Laboratory Science minor program; or permission of instructor. Not open to students with credit for 5050.		X
- Rationale	Students may take either the online or in-person course, not both.		
<i>MEDLBS 4100</i>			
- Current	Admission to Medical Laboratory Science online MLT Articulation Program or Medical Laboratory Science Minor Program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science online MLT Articulation program or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 5100.		X
- Rationale	Students may take either the online or in-person course, not both.		

<i>MEDLBS 4150</i>			
- Current	Admission to the Medical Laboratory Science Minor Program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 5150.		X
- Rationale	Students may take either the online or in-person course, not both.		
<i>MEDLBS 4200</i>			
- Current	Admission to Medical Laboratory Science online MLT Articulation Program or Medical Laboratory Science Minor Program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science online MLT Articulation program or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 5200.		X
- Rationale	Students may take either the online or in-person course, not both.		
<i>MEDLBS 4250</i>			
- Current	4000, 4050, and 4200, and admission to the Medical Laboratory Science online MLT Articulation Program; or permission of instructor.		
- Updated	4050 or 5050, 4200 or 5200, and admission to the Medical Laboratory Science online MLT Articulation program or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 5250.	X	X
- Rationale	Removed 4000 as a prerequisite (not required for this course, original course submission error). Added the in-person equivalent courses to the prerequisites. Students may take either the online or in-person course, not both.		
<i>MEDLBS 4300</i>			
- Current	Chem 2510 and Biochem 4511; or BioPhrm 3311 and 3312; and admission to the Medical Laboratory Science online MLT Articulation Program or Medical Laboratory Science Minor Program; or permission of instructor.		
- Updated	Chem 1210 (1206/1208) or higher, Biochem 2210 or higher, and admission to the Medical Laboratory Science online MLT Articulation program; or Chem 1210 (1206/1208) and Chem 1220 and admission to	X	X

	the Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 5300.		
- Rationale	The course prerequisites for the MLT students are modified to match the changes in the program prerequisites. Upon further consideration for the minor students, it was decided that only Chem 1210 and 1220 were needed to ensure that they had the background knowledge needed for the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 4350</i>			
- Current	Admission to Medical Laboratory Science online MLT Articulation Program, or permission of instructor.		
- Updated	4250, and admission to Medical Laboratory Science online MLT Articulation Program; or permission of instructor. Not open to students with credit for 5350.	X	X
- Rationale	Added 4250 as a prerequisite (exclusion was an oversight when the course was originally submitted). Students may take either the online or in-person course, not both.		
<i>MEDLBS 4500</i>			
- Current	HthRhSc 2500 or enrollment in the Medical Laboratory Science Program.		
- Updated	Admission to Medical Laboratory Science Certification, Coordinated Graduate, Post-baccalaureate certification or Medical Laboratory Science minor program; or permission of the instructor.	X	
- Rationale	Removed the prerequisite course as it was decided that it is not needed. Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 4600</i>			
- Current	Completion of all MedLbS online Articulation program required courses, including 4000, 4050, 4100, 4200, 4250, 4300, and 4700; or permission of instructor.		
- Updated	4000, 4050, 4100, 4200, 4250, 4300, 4700 and admission to Medical Laboratory Science online MLT Articulation Program. Not open to students with credit for 5600. Repeatable to a maximum of 3 cr hrs or 3 completions. This course is graded S/U.	X	X
- Rationale	Re-worded the narrative to include the course prerequisites first. Added the repeatable criteria		

	(exclusion was an oversight when the course was originally submitted). Added that the course is graded S/U. Students may take either the online or in-person course, not both.		
<i>MEDLBS 4700</i>			
- Current	4000, 4050, 4100, and MolGen 4500, and admission to Medical Laboratory Science online MLT Articulation Program; or permission of instructor. Prereq or concur: 4250 and 4300.		
- Updated	Admission to Medical Laboratory Science online MLT Articulation Program; or permission of instructor. Not open to students with credit for 5400.	X	X
- Rationale	Removed the prerequisite courses as it was decided that they are not needed. Students may take either the online or in-person course, not both.		

In-person Courses

Course	Narrative	Change of:	
		Class(es) Prereqs/Concur	Add Exclusion
<i>MEDLBS 4400</i>			
- Current	Admission to Medical Laboratory Science program or Medical Laboratory Science certificate program, or permission of instructor.		
- Update	Admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor.		
- Rationale	Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 4405</i>			
- Current	Admission to Medical Laboratory Science program or Medical Laboratory Science certificate program, or permission of instructor. Concur: 4400.		
- Updated	Admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate		

	certification program; or permission of instructor. Concur 4400.		
- Rationale	Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 4505</i>			
- Current	Admission to Medical Laboratory Science program or Medical Laboratory Science certificate program, or permission of instructor. Concur: 4500.		
- Updated	Admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor. Concur 4500.		
- Rationale	Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5000</i>			
- Current	Micrbio 4000.01, and admission to Medical Laboratory Science program, or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	Micrbio 4000.01, or 4000.02, or 4100, and admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, or Post-baccalaureate certification program; or admission to the Medical Laboratory Science in-person MLT Articulation program or Medical Laboratory Science minor program; or permission of instructor. Not open to students with credit for 4000.	X	X
- Rationale	The course prerequisites are modified to match the changes in the program prerequisites. Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5005</i>			
- Current	4405, and Micrbio 4000; and admission to Medical Laboratory Science Program, or Medical Laboratory		

	Science certificate program; or permission of instructor. Concur: 4400.		
- Updated	4405, and admission to Medical Laboratory Science Certification, Non-certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor.	X	
- Rationale	Removed Micrbio 4000 as a prerequisite (inclusion of the course is redundant as this course is only taken with or following the completion of 5000 for which Micrbio 4000 is taken as a prerequisite). Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5050</i>			
- Current	Enrollment in Medical Laboratory Science program or Medical Laboratory Science certificate program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, in-person MLT Articulation or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4050.		X
- Rationale	Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5055</i>			
- Current	4400 and 4405, and admission to Medical Laboratory Science program or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	Admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor. Concur: 4405	X	
- Rationale	Removed 4400 as a corequisite (inclusion of the course in not needed as students must be enrolled in both		

	4400 and 4405). Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5089</i>			
- Current	All courses required in the Medical Laboratory Science Certification curriculum except 5600 and 5350. Repeatable to a maximum of 20 cr hrs or 4 completions. This course is graded S/U.		
- Updated	5250, 5255, 5300, 5305, 5400, and admission to Medical Laboratory Science Certification, Non-certification, Coordinated Graduate, or Post-baccalaureate certification program. Repeatable to a maximum of 15 cr hrs or 3 completions.	X	
- Rationale	Added all the prerequisite courses (versus listing the exception courses). Modified the repeatable credits to current practice. Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5100</i>			
- Current	Admission to Medical Laboratory Science program, or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, in-person MLT Articulation or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4100.		X
- Rationale	Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5105</i>			
- Current	Admission to Medical Laboratory Science Program or Medical Laboratory Science certificate program, or permission of instructor. Concur: 4400 and 4405.		
- Updated	Admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor. Concur: 4405	X	

- Rationale	Removed 4400 as a corequisite (inclusion of the course in not needed as students must be enrolled in both 4400 and 4405). Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5150</i>			
- Current	Admission to Medical Laboratory Science program or Medical Laboratory Science certificate program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4150.		X
- Rationale	Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5155</i>			
- Current	4400, and admission to Medical Laboratory Science program or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	4405, and admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor.	X	
- Rationale	Changed prerequisite to 4405 from 4400 (the laboratory course is a better choice as a prerequisite for this course; and this will match the prerequisite for other laboratory courses). Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5200</i>			
- Current	Enrollment in Medical Laboratory Science program or Medical Laboratory Science certificate program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, in-person MLT Articulation or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4200.		X

- Rationale	Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5205</i>			
- Current	4400, and admission to Medical Laboratory Science program or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	4405, and admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor.		X
- Rationale	Changed prerequisite to 4405 from 4400 (the laboratory course is a better choice as a pre-requisite for this course; and this will match the pre-requisite for other laboratory courses). Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5250</i>			
- Current	5000, 5050, or 5200, and enrollment in Medical Laboratory Science program or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	4050 or 5050, 4200 or 5200, and admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, in-person MLT Articulation or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4250.	X	X
- Rationale	Removed 5000 as a prerequisite (not required for this course, original course submission error). Added online equivalent courses to the prerequisites. Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5300</i>			
- Current	Chem 2510 and Biochem 4511; or BioPhrm 3311 and 3312; and admission to Medical Laboratory Science program or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	Chem 2510 and Biochem 4511 or BioPhrm 3311 and 3312 and admission to Medical Laboratory Science Certification, Non-certification (Medical Science),	X	X

	Coordinated Graduate, or Post-baccalaureate certification program; or Chem 1210 (1206/1208) or higher, Biochem 2210 or higher, and admission to the Medical Laboratory Science in-person MLT Articulation program; or Chem 1210 (1206/1208) and Chem 1220 and admission to the Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4300.		
- Rationale	The course prerequisites for the MLT students are modified to match the changes in the program prerequisites. Included all the curriculum tracks which would have students enrolled in the course and the applicable prerequisites. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5305</i>			
- Current	4400; and Chem 2510 and Biochem 4511, or BioPhrm 3311; and admission to Medical Laboratory Science program or Medical Laboratory Science certificate program; or permission of instructor.		
- Updated	4405; and admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor.	X	
- Rationale	Changed prerequisite to 4405 from 4400 (the laboratory course is a better choice as a prerequisite for this course; and this will match the prerequisite for other laboratory courses). Removed Chem 2510 and Biochem 4511, or BioPhrm 3311 (inclusion of the courses is redundant as this course is only taken with or following the completion of 5300 for which the listed courses are taken as a prerequisites). Included all the curriculum tracks which would have students enrolled in the course.		
<i>MEDLBS 5350</i>			
- Current	Admission to Medical Laboratory Science program or Medical Laboratory Science certificate program, or permission of instructor.		
- Updated	5250, and admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or permission of instructor. Not open to students with credit for 4350.	X	X

- Rationale	Added 5250 as a prerequisite (exclusion was an oversight when the course was originally submitted). Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5400</i>			
- Current	5000, 5050, 5100, and admission to Medical Laboratory Science Program, or Medical Laboratory Science certificate program; or permission of instructor. Prereq or concur: 5250 and 5300.		
- Updated	Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, or in-person MLT Articulation program; or permission of instructor. Not open to students with credit for 4700.	X	X
- Rationale	Removed the prerequisite courses as it was decided that they are not needed. Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		
<i>MEDLBS 5600</i>			
- Current	All Medical Laboratory Science certification track required courses except for MedLbS 5089. Repeatable to a maximum of 5 cr hrs or 5 completions. This course is graded S/U.		
- Updated	5000, 5050, 5100, 5150, 5200, 5250, 5300, 5400 and admission to Medical Laboratory Science Certification, Coordinated Graduate, or Post-baccalaureate certification program; or 5000, 5050, 5100, 5200, 5250, 5300, 5400 and admission to Medical Laboratory Science in-person MLT Articulation program; or permission of instructor. Not open to students with credit for 4600. Repeatable to a maximum of 3 cr hrs or 3 completions. This course is graded S/U.	X	X
- Rationale	Re-worded the narrative to list and include the course prerequisites first. Modified the repeatable credits to current practice. Included all the curriculum tracks which would have students enrolled in the course. Students may take either the online or in-person course, not both.		

<i>MEDLBS 5690</i>			
- Current	Enrollment in Medical Laboratory Science program, or permission of instructor.		
- Updated	Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, or Post-Baccalaureate certification program; or permission of instructor.		
- Rationale	Included all the curriculum tracks which would have students enrolled in the course.		