



Associate of Science- Pre-Professional Health to  
Bachelor of Science in Medical Laboratory Science <sup>T</sup>



Guided Pathway

Effective for the 2019-2020 Catalog

First Year – Galveston College

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> ENGL 1301 Composition I	<sup>c</sup> ENGL 1302 Composition II
MATH Elective	Elective
<sup>c</sup> BIOL 1406 General Biology I	<sup>c</sup> BIOL 1407 General Biology II
<sup>c</sup> CHEM 1411 General Chemistry I	<sup>c</sup> CHEM 1412 General Chemistry II

Total Semester Hours: 14

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Second Year – Galveston College

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> HIST 1301 US History I	<sup>c</sup> HIST 1302 US History II
Elective	<sup>c</sup> Language, Philosophy & Culture Elective
<sup>c</sup> GOVT 2305 Federal Government	<sup>c</sup> GOVT 2306 Texas Government
<sup>c</sup> CHEM 2423 Organic Chemistry I	<sup>c</sup> CHEM 2425 Organic Chemistry II
<sup>c</sup> Creative Arts Elective	<sup>c</sup> Social & Behavioral Science Elective

Total Semester Hours: 16

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**AS: Pre-Professional Health**

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
BIOL 3407 – Microbiology	MDLS 4182 – Computer Applications in Science and Medicine
BIOL 3485 – Immunology	MDLS 4114 – Urinalysis and Renal Physiology
CHEM 4374 – Biochemistry I (Fall/Summer Only)	MDLS 4115 – Urinalysis Laboratory
BIOL 4460 – Animal Physiology	MDLS 4174 – Introduction to Laboratory Safety and Instrumentation
	MDLS 4148 – Introduction to Medical Genetics
	MDLS 4244 – Immunohematology I Lecture
	MDLS 4145 – Immunohematology I Lab
	MDLS 4276 – Clinical Chemistry I Lecture
	MDLS 4177 – Clinical Chemistry I Lab
	MDLS 4234 – Medical Microbiology I Lecture
	MDLS 4135 – Medical Microbiology I Lab
	MDLS 4164 – Immunology and Serology I Lecture
	MDLS 4165 – Immunology and Serology I Laboratory

Total Semester Hours: 15

Total Semester Hours: 16

SUMMER

MDLS 4224 – Hematology I Lecture	MDLS 4175 – Advanced Laboratory Automation, Statistics, and Quality Assurance Concepts
MDLS 4125 – Hematology I Laboratory	MDLS 4128 – Hemostasis
MDLS 4151 – Clinical Parasitology Lecture	MDLS 4166 – Immunology and Serology II Lecture
MDLS 4152 – Clinical Parasitology Laboratory	MDLS 4167 – Immunology and Serology II Lab

Total Semester Hours: 8

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
MDLS 4278 – Clinical Chemistry II Lecture	MDLS 4091 – Integrated Clinical Laboratory Practice and Research
MDLS 4179 – Clinical Chemistry II Lab	MDLS 4092 – Clinical Laboratory Practicum I
MDLS 4226 – Hematology II Lecture	MDLS 4093 – Clinical Laboratory Practicum II
MDLS 4127 – Hematology II Laboratory	MDLS 4094 – Clinical Laboratory Practicum III
MDLS 4236 – Medical Microbiology II Lecture	MDLS 4095 – Clinical Laboratory Practicum IV
MDLS 4137 – Medical Microbiology II Lab	
MDLS 4246 – Immunohematology II Lecture	
MDLS 4147 – Immunohematology II Lab	
MDLS 4138 – Medical Mycology and Virology	
MDLS 4116 – Body Fluids Analysis	

Total Semester Hours: 14

Total Semester Hours: 9

TOTAL: 123

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

Part-time students may also follow this sequence. Developmental coursework may be required.

\* You may take a different course to meet this requirement. A specific list is available from your advisor.

<sup>c</sup> This course counts for the Core Curriculum at any public college or university in Texas.

() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.