## **CURRICULUM STANDARD**

Effective Term Spring 2017 [2017\*01]

Curriculum Program Title	Medical Laboratory Technology	Program Code	A45420
Concentration	(not applicable)	CIP Code	51.1004

## **Curriculum Description**

The Medical Laboratory Technology curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and immunohematology that may be used in the maintenance of health and diagnosis/treatment of disease.

Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance and reporting/recording and interpreting findings involving tissues, blood, and body fluids.

Graduates may be eligible to take the examination given by the Board of Certification of the American Society for Clinical Pathology. Employment opportunities include laboratories in hospitals, medical offices, industry, and research facilities.

## Curriculum Requirements\*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]

- I. General Education. Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*
- **III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

## **Major Hours**

- A. **Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B. Concentration** (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours. Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

Medical Laboratory Technology A45420							
					AAS	Diploma	Certificate
Mini	mum N	1ajor Hours Required			49 SHC	30 SHC	12 SHC
Α.	CORE	1			46-56 SHC	NR	
Requ	uired Co	ourses:					
•	MLT	110 Intro to Medical Laboratory Tech	3 SHC				
	MLT	111 Urinalysis and Body Fluids	2 SHC				
	MLT	120 Hematology/Hemostasis	4 SHC				
	MLT	130 Clinical Chemistry	4 SHC				
Requ	uired Su	ıbject Areas:					
		. Select one set of courses.					
	MLT	140 Introduction to Microbiology	3 SHC				
	MLT	240 Special Clinical Microbiology	3 SHC	or			
	BIO	175 General Microbiology I	3 SHC				
	MLT	141 General Clinical Microbiology	3 SHC				
Anato	-	Physiology. Select one course/sequence:					
	BIO	163 Basic Anatomy and Physiology	5 SHC	or			
	BIO	165 Anatomy and Physiology I	4 SHC	&			
	BIO	166 Anatomy and Physiology II	4 SHC	or			
	BIO	168 Anatomy and Physiology I	4 SHC	&			
	BIO	169 Anatomy and Physiology II	4 SHC	or			
	MLT	116 Anatomy and Medical Terminology	5 SHC				
Immu	unohem	atology. Select 5 SHC:					
	MLT	125 Immunohematology I	5 SHC				
	MLT	126 Immunology and Serology	2 SHC				
	MLT	127 Transfusion Medicine	3 SHC				
			Continued on n	ext page			

	Medical Laboratory	Technology A4542	0 (Continued)	•	-
Chemistry. S	elect one course/sequence:				
	130 General, Organic and Biochemistry	3 SHC &			
	130A General, Organic, and Biochemistry	1 SHC or			
CUM	121 Introduction to Chamister				
	131 Introduction to Chemistry	3 SHC &			
	131A Introduction to Chemistry Lab	1 SHC &			
СНМ	132 Organic and Biochemistry	4 SHC or			
CHM	151 General Chemistry I	4 SHC &			
CHM	152 General Chmistry II	4 SHC or			
MLT	118 Medical Laboratory Chemistry	3 SHC			
Clinical Exner	rience. Select at least 13 SHC:				
MLT	251 MLT Practicum I	1 SHC			
MLT	252 MLT Practicum I	2 SHC			
MLT	253 MLT Practicum I	3 SHC			
MLT	254 MLT Practicum I	4 SHC			
MLT	255 MLT Practicum I	5 SHC			
MLT	257 MLT Practicum I	8 SHC			
MLT	259 MLT Practicum I	11 SHC			
MLT	283 MLT Practicum I	13 SHC			
MLT	261 MLT Practicum II	1 SHC			
MLT	262 MLT Practicum II	2 SHC			
MLT	263 MLT Practicum II	3 SHC			
MLT	264 MLT Practicum II	4 SHC			
MLT		5 SHC			
	265 MLT Practicum II 266 MLT Practicum II	6 SHC			
MLT		8 SHC			
MLT	267 MLT Practicum II				
MLT	269 MLT Practicum II	11 SHC			
MLT	285 MLT Practicum II	13 SHC			
MLT	271 MLT Practicum III	1 SHC			
MLT	272 MLT Practicum III	2 SHC			
MLT	273 MLT Practicum III	3 SHC			
MLT	274 MLT Practicum III	4 SHC			
MLT	275 MLT Practicum III	5 SHC			
MLT	276 MLT Practicum III	6 SHC			
MLT	277 MLT Practicum III	8 SHC			
B. CON	CENTRATION (Not applicable)				
C. OTHE	R MAJORS				
	selected from the following prefixes:				
BIO, BTC, CHM, CIS, CSC, HSC, MED, MLT, and WBL					
Up to	two semester hour credits may be selected				
Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA.					