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 of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **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
Min	Minimum Major Hours Required			49 SHC	30 SHC	12 SHC		
Α.	CORE					46-56 SHC	NR	
Req	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				
Req	uired Su	ıbject A	Areas:					
Mici	obiolog	y. Sel	ect 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				
Ana	tomy &	Physio	logy. 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				
lmm	unoher	natolo	gy. Select 5 SHC:					
	MLT		Immunohematology I	5 SHC				
	MLT	126	Immunology and Serology	2 SHC				
	MLT	127	Transfusion Medicine	3 SHC				

			Medical Laboratory Te	schnology A4E4	20 (Continued)		
Chemis	ctrv	Salact (one course/sequence:	cilliology A454			
	CHM		General, Organic and Biochemistry	3 SHC &			
			General, Organic, and Biochemistry	1 SHC or			
	CITIVI	130A	General, Organic, and Biochemistry	1 3110 01			
	СНМ	131	Introduction to Chemistry	3 SHC &			
			Introduction to Chemistry Lab	1 SHC &			
	СНМ		Organic and Biochemistry	4 SHC or			
			,				
	СНМ	151	General Chemistry I	4 SHC &			
	СНМ	152	General Chmistry II	4 SHC or			
	MLT	118	Medical Laboratory Chemistry	3 SHC			
Clinica	l Expe	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			
		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	265	MLT Practicum II	5 SHC			
		266	MLT Practicum II	6 SHC			
	MLT	267	MLT Practicum II	8 SHC			
	MLT	269	MLT Practicum II	11 SHC			
	MLT	285	MLT Practicum II	13 SHC			
	MLT		MLT Practicum III	1 SHC			
	MLT		MLT Practicum III	2 SHC			
	MLT		MLT Practicum III	3 SHC			
	MLT		MLT Practicum III	4 SHC			
	MLT		MLT Practicum III	5 SHC			
	MLT		MLT Practicum III	6 SHC			
	MLT		MLT Practicum III	8 SHC			
			TION (Not applicable)				
		R MAJO					
	To be selected from the following prefixes:						
	BIO, BTC, CHM, CIS, CSC, HSC, MED, MLT, PBT, and WBL						
	Up to	two se	mester hour credits may be selected fro	om ACA.			
	Three semester hour credits may be selected from PTE.						
	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.						