

Maricopa-ASU Medical Laboratory Science (MDL) Pathway - Catalogue Year 2010-2011
College of Nursing & Health Innovation

Completion of the Maricopa-ASU Medical Lab Science Pathway and all special requirements prior to and after acceptance in the ASU BAS program, earns MCCCDC Associate of Applied Science degree and ASU Medical Laboratory Science (BAS) degree.

Special Requirements:

A 2.5 GPA in the coursework in Sections I, II, and III is required for admission to the ASU Medical Laboratory Sciences BAS program. Student must be accepted into Medical Laboratory Science BAS program in order to proceed. Upon acceptance, students will be concurrently enrolled in Phoenix College and ASU and will complete sections IV and V below. All coursework must be completed with a C or better.

MCCCD Coursework and Associate Degree Requirements	Course Credit	Select these MCCCD Courses	Notes
I. General Education and Maricopa Additional Requirements	32		<i>All General Studies courses applied to the Medical Laboratory Sciences Pathway must satisfy AGEC criteria.</i>
1. General Education -			
a. First Year Composition			
ENG 101 and 102 OR ENG 107 and 108	6		
b. Literacy & Critical Inquiry			
L	3	COM 225	
c. Mathematical Studies[MA/CS]			
1) Mathematics [MA]	3	MAT 142: College Mathematics	<i>Higher level mathematics course may be taken</i>
2) Computer/Statistics/Quantitative Applications [CS]	0	<i>Will be taken after transfer to ASU</i>	<i>Satisfied by upper division course taken after transfer to ASU</i>
d. Humanities and Fine Arts			
HU	3		
HU	3		
e. Social and Behavioral Science			
SB	3		
SB	3		
f. Natural Science			
SQ	4	CHM 151/151LL: General Chemistry I & Lab	
SQ or SG	4	BIO 181: General Biology (Majors) I	
2. General Education- AGEC-A Awareness Areas			
Cultural Diversity in the US [C]	0-9	<i>Select courses that concurrently satisfy General Education categories (HU, SB) and Awareness Areas (C, H or G)</i>	<i>ASU requires all three awareness areas for graduation (C, H, and G).</i>
Historical or Global [H] or [G]			
3. MCCCD Additional Requirements			
MCCCD Communication requirement: COM 100, 110, 225 or 230	0	<i>Satisfied by 1.b (above)</i>	
MCCCD Critical reading requirement: CRE 101 or equivalent	0-3		
II. ASU Sun Devil Tracking Courses taken at Phoenix College	13		
MAT 142: College Mathematics or higher [MA]	0		
BIO 181: General Biology (Majors) I [SQ]	0	<i>Met within General Education (above)</i>	
CHM 151 and 151LL: General Chemistry I & Lab [SQ]	0		
BIO 182: General Biology (Majors) II	4	BIO 182	
BIO 205: Microbiology/Laboratory	4	BIO 205	
CHM 152 and 152LL: General Chemistry II & Lab	4	CHM 152/152LL	
HCC145AA Medical Terminology	1	HCC 145AA	
III. Lower Division requirements taken at Phoenix College	8		
ENG 101/102 or ENG 107/108: First Year Composition	0	<i>Met within General Education (above)</i>	
COM 225 (3): Public Speaking	0		
HCC 130: Fundamentals in Health Care Delivery	0-3		<i>AAS program prerequisite</i>
BIO 160: Intro to Human Anatomy & Physiology	4	BIO 160	
CHM 230 and CHM 230LL: Fundamental Organic Chemistry with Lab	4	CHM 230/230LL	
IV. Lower Division requirements taken at Phoenix College while concurrently enrolled at ASU	37		
HCE 190: Clinical Laboratory Operation	2	HCE 190	
HCE 240: Clinical Urinalysis and Body Fluids Analysis	4	HCE 240	
HCE 241: Practicum: Clinical Urinalysis and Body Fluids Analysis	1	HCE 241	
HCE 242: Clinical Hematology and Hemostasis	6	HCE 242	
HCE 243: Practicum: Clinical Hematology and Hemostasis	1	HCE 243	
HCE 244: Clinical Immunohematology and Immunology	6	HCE 244	
HCE 245: Practicum: Clinical Immunohematology and Immunology	1	HCE 245	
HCE 246: Clinical Microbiology	6	HCE 246	
HCE 247: Practicum: Clinical Microbiology	1	HCE 247	
HCE 248: Clinical Chemistry	6	HCE 246	
HCE 249: Practicum: Clinical Chemistry	1	HCE 249	
HCE 290: Medical Laboratory Science Review	2	HCE 290	
Total Transfer Credits	90	90 maximum transferable credit hours; excess hours will not transfer.	
V. ASU BAS Courses taken at ASU while concurrently enrolled in Phoenix College	30		
Computer Science Quantitative Methods [CS]	3	CS (upper division)	<i>Select an upper division [CS] course</i>
PHI 306: Applies Ethics [HU]	3	PHI 306	
Literacy and Critical Inquiry [L]	3	L(upper division)	<i>Select an upper division [L] course</i>
MDL 410: Laboratory Leadership	1	MDL 410	
MDL 420: Advanced Clinical Urinalysis and Body Fluids	2	MDL 420	
MDL 421: Advanced Practicum: Clinical Urinalysis and Body Fluids	1	MDL 241	
MDL 430: Advanced Clinical Hematology and Hemostasis	3	MDL 430	
MDL 431: Advanced Practicum: Clinical Hematology and Hemostasis	1	MDL 431	
MDL 440: Advanced Immunohematology and Immunology	3	MDL 440	
MDL 441: Advanced Practicum: Clinical Immunohematology and Immunology	2	MDL 441	
MDL 450: Advanced Clinical Microbiology	3	MDL 450	
MDL 451: Practicum: Advanced Clinical Microbiology	1	MDL 461	
MDL 460: Advanced Clinical Chemistry	3	MDL 460	
MDL 461: Practicum: Advanced Clinical Chemistry	1	MDL 461	
Total (120 credits required for BAS)	120		<i>Registration in MDL courses dependent on acceptance to MDL Program.</i>



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Special Requirements:

A 2.5 GPA in the coursework in Sections I, II, and III of the Pathway (taken in terms 1-4 below) is required for admission to the ASU Medical Laboratory Sciences BAS program. Student must be accepted into Medical Laboratory Science BAS program in order to proceed. Upon acceptance, students will be concurrently enrolled in Phoenix College and ASU and will complete sections IV and V (taken in terms 5-9 below). All coursework must be completed with a C or better.

Sequencing: Courses in blue (PC) are Phoenix College courses. Courses in black (ASU) are ASU courses.

TERM ONE: 14 credits 0-14 CREDIT HOURS		
PC	HCC145AA Medical Terminology	1
PC	CHM 151: General Chemistry I	4
PC	MAT 142 (MA): College Mathematics or higher	3
PC	ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR	3
PC	Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H):	3

TERM TWO: 14 credits 15-28 CREDIT HOURS		
PC	CHM 152: General Chemistry II	4
PC	BIO 181: General Biology I or BIO 182: General Biology II	4
PC	ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR	3
PC	Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H):	3

TERM THREE 14 credits 29-42 CREDIT HOURS		
PC	BIO 181: General Biology I or BIO 182: General Biology II	4
PC	CHM 230: Fundamental Organic Chemistry/Laboratory	3 / 1
PC	Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H):	3
PC	Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB):	3

TERM FOUR 11 credits 43-53 CREDIT HOURS		
PC	BIO 205: Microbiology/Laboratory	4
PC	COM 225 [L]	3
PC	BIO 160: Introduction to Human Anatomy and Physiology OR BIO 247: Cellular Biology	4
<input type="checkbox"/> Submit MDL application. If accepted into the MDL program, student will progress in Terms Five through Nine		

TERM FIVE – FALL 12 credits 54-65 CREDIT HOURS		
ASU	MDL 410 Laboratory Leadership	1
ASU	Computer/Statistics/Quantitative applications (CS) course (upper division):	3
ASU	Literacy (L) & Critical Inquiry (upper division):	3
ASU	PHI 306 (HU)	3
PC	HCE 190 Laboratory Operations	2

TERM SIX – SPRING 24 credits 66-89 CREDIT HOURS		
PC	HCE 240: Clinical Urinalysis and Body Fluids	4
ASU	MDL 420: Advanced Clinical Urinalysis and Body Fluids	2
PC	HCE 242: Clinical Hematology and Hemostasis	6
ASU	MDL 430: Advanced Clinical Hematology and Hemostasis	3
PC	HCE 244: Clinical Immunohematology and Immunology	6
ASU	MDL 440: Advanced Immunohematology and Immunology	3

TERM SEVEN – SUMMER 7 credits 90-96 CREDIT HOURS		
PC	HCE 241: Practicum: Clinical Urinalysis and Body Fluids	1
ASU	MDL 421: Advanced Practicum: Clinical Urinalysis and Body Fluids	1
PC	HCE 243: Practicum: Clinical Hematology and Hemostasis	1
ASU	MDL 431: Advanced Practicum: Clinical Hematology and Hemostasis	1
PC	HCE 245: Practicum: Clinical Immunohematology and Immunology	1
ASU	MDL 441: Advanced Practicum: Clinical Immunohematology and Immunology	2

TERM EIGHT – FALL 20 credits 97-116 CREDIT HOURS		
PC	HCE 246: Clinical Microbiology	6
ASU	MDL 450: Advanced Clinical Microbiology	3
PC	HCE 248: Clinical Chemistry	6
ASU	MDL 460: Advanced Clinical Chemistry	3
PC	HCE 247: Practicum: Clinical Microbiology	1
ASU	MDL 451: Practicum: Advanced Clinical Microbiology	1

TERM NINE – SPRING 4 credits 117-120 CREDIT HOURS		
PC	HCE 249: Practicum: Clinical Chemistry	1
ASU	MDL 461: Practicum: Advanced Clinical Chemistry	1
PC	HCE 290: Medical Laboratory Science Review	2