

Table 1. Skills to be attained during Year 1

Section	Skills	Student A	Student B	Student C	Student D
Diagnostic Microbiology	Assessed proficiency (per CLIA standards):				
	GC/Chlamydia (Probe Tech)	X	X	X	X
	waste management practices	X	X	X	X
	Technical training:				
	CDC web-based module on intestinal parasites	X	X	X	X
Environmental Microbiology	FDA provisional certification:				
	plating PAC and HSCC Petrifilm procedures	X	X		
	Delvo 5 Pack inhibitor test, for milk products	X	X		
	Proficiency via Multi State Split:				
	plating PAC and HSCC Petrifilm procedures			X	X
	Delvo 5 Pack inhibitor test, for milk products			X	X
	Technical training:				
	coliform bacteria in water by Colilert System	X	X	X	X
	proficiency in media prep. for <i>B. cereus</i> analysis	X	X		
food analysis for Salmonella spp. (isolate identification and serotyping)			X	X	
Molecular Diagnostics	Technical training:				
	Polymerase chain reaction (PCR)	X	X	X	X
	Real time-PCR (RT-PCR)	X	X	X	X
	Reverse transcriptase-PCR (RvT-PCR)	X	X	X	X
	Viral cell culture		X	X	X
	Western blot	X	X	X	
	Agent training:				
	Rabies RNA by RT-PCR				X
	Rabies subtyping by hybridization				X
	HIV-2 virus by RT-PCR			X	
	HIV-2 by nested RT-PCR			X	
	Norwalk-like virus by RT-PCR		X		X
	<i>B. anthracis</i> by RT-PCR		X		X
	HIV-2 by RT-PCR	X			
SARS RNA by RT-PCR	X		X		
Blood Lead/Serology	Assessed proficiency (per CLIA standards):				
	blood lead by GFAAS	X	X	X	X
	Technical training:				
	syphilis (RPR screening; FTA confirmation)	X	X	X	X
	HIV-1 (immunoassay screening; Western blot confirmation)	X	X	X	X

Not all students achieve all skills due to variances in time devotion, seasonal testing and staff availability, and other factors.