

Biomedical Equipment Technology Assessment Data

Students will be able to demonstrate the safe/appropriate use of troubleshooting skills in electronics and networking to test, analyze and maintain biomedical equipment in proper working order.																			
Lab exercise on performance verification and testing of infusion pumps (BIOM 2311).																			
Goal is Minimum 70% on lab assessment by 70% of the students																			
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)	
BIOM 2311 General Medical Equipment I	Spring 2021	100	80	100	90	90	100										93.33	100%	Y
	Spring 2022	90	70	90	90	80	80	60	80	80	90	40	90	80			78.46	85%	Y
	Spring 2023	90	90	90	100	90	90										91.67	100%	Y
	Spring 2024																		
	Spring 2025																		

Lab exercise on troubleshooting networking and telemetry of biomedical equipment. (BIOM 2315).																			
Goal is Minimum 70% on lab assessment by 70% of the students																			
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)	
BIOM 2315 Physiological Instruments I	Fall 2021	100	81	100	81	75											87.50	100%	Y
	Fall 2022	100	100	100	100	90	100	100	100	90	90	90					96.36	100%	Y
	Fall 2023																		
	Fall 2024																		
	Fall 2025																		

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Students will be able to do performance verification of biomedical equipment to ensure accurate measurements and compliance with regulatory standards.																					
Lab exercise to do performance verification of telemetry equipment (BIOM 2315)																					
Goal is Minimum 70% on lab assessment by 70% of the students																					
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)			
BIOM 2315 Physiological Instruments I	Fall 2021	100	100	100	100	100												100.00	100%	Y	
	Fall 2022	100	100	100	100	90	100	100	100	90	90	90						96.36	100%	Y	
	Fall 2023																				
	Fall 2024																				
	Fall 2025																				

Lab exercise to do performance verification of diagnostic ultrasound machine (BIOM 2319)																					
Goal is Minimum 70% on lab assessment by 70% of the students																					
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)			
BIOM 2319 Fundamentals of X-Ray and Medical Imaging Systems	Spring 2022	100	100	100	100	100												100.00	100%	Y	
	Spring 2023	90	90	90	100	80	100	80	80	90	100	90						90.00	100%	Y	
	Spring 2024																				
	Spring 2025																				
	Spring 2026																				

Lab exercise to do performance verification of lab centrifuge (BIOM 2331)																					
Goal is Minimum 70% on lab assessment by 70% of the students																					
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)			
BIOM 2331 Biomedical Clinical Instrumentation	Spring 2022	100	90	100	90	90												94.00	100%	Y	
	Spring 2023	90	100	100	90	70	90	80	80	90	90	90						88.18	100%	Y	
	Spring 2024																				
	Spring 2025																				
	Spring 2026																				

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Lab exercise to do performance verification of a ventilator (BIOM 2337)																					
Goal is Minimum 70% on lab assessment by 70% of the students																					
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)			
BIOM 2337 Respiratory Equipment Maintenance	Spring 2022	100	80	100	100	90												94.00	100%	Y	
	Spring 2023	90	100	90	90	90	90	100	90	90	100	90						92.73	100%	Y	
	Spring 2024																				
	Spring 2025																				
	Spring 2026																				

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Students will be able to safely perform preventive maintenance and general repairs on biomedical equipment.																					
Lab exercise requiring preventive maintenance and general repairs of diagnostic ultrasound machine (BIOM 2319)																					
Goal is Minimum 70% on lab assessment by 70% of the students																					
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)			
BIOM 2319 Fundamentals of X-Ray and Medical Imaging Systems	Spring 2022	100	100	100	100	100												100.00	100%	Y	
	Spring 2023	90	90	80	90	90	90	80	90	100	100	90						90.00	100%	Y	
	Spring 2024																				
	Spring 2025																				
	Spring 2026																				

Lab exercise requiring preventive maintenance and general repairs of lab centrifuge (BIOM 2331)																					
Goal is Minimum 70% on lab assessment by 70% of the students																					
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)			
BIOM 2331 Biomedical Clinical Instrumentation	Spring 2022	100	100	100	100	90												98.00	100%	Y	
	Spring 2023	90	100	90	90	90	100	90	100	100	100	90						94.55	100%	Y	
	Spring 2024																				
	Spring 2025																				
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	Spring 2023	100	100	100	100	100	100	100	100	100	100	100						100.00	100%	Y	
	Spring 2024																				
	Spring 2025																				
	Spring 2026																				

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Students will be able to document accurately the records of maintenance, repair, and performance verification of biomedical equipment in a Computerized Maintenance Management System (CMMS) using proper terminology.																					
Lab exercise to document preventive maintenance, general repairs, and performance verification of telemetry equipment (BIOM 2315)																					
Goal is Minimum 70% on lab assessment by 70% of the students																					
Class	Semester	Raw Data														Average	Final Result	Goal Met (Yes/No)			
BIOM 2315 Physiological Instruments I	Fall 2021	100	100	100	100	100												100.00	100%	Y	
	Fall 2022	100	100	100	100	100	100	100	100	100	100	100						100.00	100%	Y	
	Fall 2023																				
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	Spring 2023	90	90	90	100	80	100	80	80	90	100	90						90.00	100%	Y	
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