

Blueprint for Instruction and Assessment

Bioscience

41.0100.00



Domain	Related Standards	Instructional Time
Domain 1 Essential Lab Skills	STANDARD 7.0 DEMONSTRATE BASIC LAB SKILLS IN THE USE OF EQUIPMENT AND INSTRUMENTATION STANDARD 10.0 DEMONSTRATE MATERIAL PREPARATION AND STORAGE STANDARD 13.0 DEMONSTRATE SCIENTIFIC MEASURE	30 - 40%
Domain 2 Applied Lab Skills	STANDARD 6.0 EXAMINE THE ROLE OF LIVING ORGANISMS IN BIOSCIENCE RESEARCH STANDARD 8.0 DEMONSTRATE MICROBIOLOGY SKILLS STANDARD 9.0 DEMONSTRATE PROTEIN TECHNIQUES STANDARD 12.0 DEMONSTRATE NUCLEIC ACID TECHNIQUES	25 - 35%
Domain 3 Safety and Regulatory Practices	STANDARD 1.0 MAINTAIN A SAFE WORK ENVIRONMENT STANDARD 2.0 DEMONSTRATE STANDARD OPERATING PROCEDURE (SOPS) IN THE LABORATORY STANDARD 3.0 DEMONSTRATE QUALITY CONTROL PROCEDURES	20 - 30%
Domain 4 Research Practices	STANDARD 4.0 DEMONSTRATE CRITICAL THINKING AND PROBLEM-SOLVING SKILLS STANDARD 5.0 DEMONSTRATE ETHICAL AND LEGAL CONDUCT STANDARD 11.0 DEMONSTRATE THE USE OF BIOINFORMATIC RESOURCES	15 - 25%

Content domains are bodies of knowledge, skills, or abilities to be taught or assessed. They illustrate the relationship among technical standards, instructional time, and student success on the Technical Skills Assessment. This blueprint corresponds with the Technical Standards endorsed on July 28, 2021.

