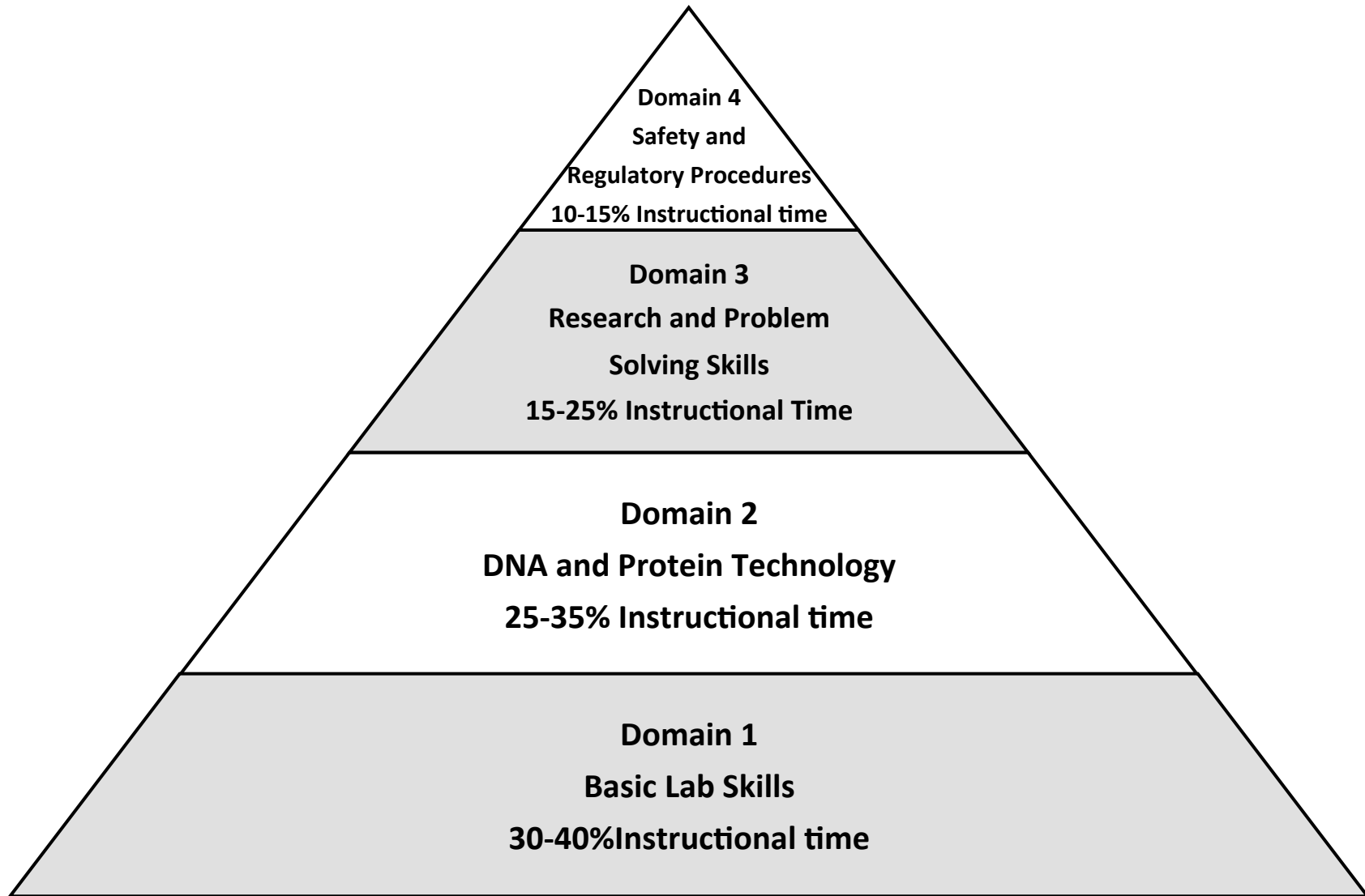


Content Domains

Bioscience 41.0100.00



The technical standards for the Bioscience are clustered in 4 domains. The greatest percentage of instructional time will be spent on domains 1 and 2 with less time on domains 3 and 4. Students who complete the program should demonstrate a thorough knowledge in each of these domains.

Blueprint for Instruction and Assessment

Bioscience
41.0100.00

Domain	Related Standards	Instructional Time
Domain 1 Basic Lab Skills	STANDARD 8.0 DEMONSTRATE BASIC LAB SKILLS IN THE USE OF EQUIPMENT AND INSTRUMENTATION STANDARD 9.0 DEMONSTRATE MICROBIOLOGY SKILLS STANDARD 11.0 DEMONSTRATE MATERIAL PREPARATION AND STORAGE STANDARD 14.0 DEMONSTRATE SCIENTIFIC MEASUREMENTS	30-40%
Domain 2 DNA and Protein Technology	STANDARD 10.0 DEMONSTRATE PROTEIN TECHNIQUES STANDARD 12.0 DEMONSTRATE THE USE OF BIOINFORMATIC RESOURCES STANDARD 13.0 DEMONSTRATE NUCLEIC ACID TECHNIQUES	25-35%
Domain 3 Research and Problem Solving Skills	STANDARD 3.0 DEMONSTRATE CRITICAL THINKING AND SCIENTIFIC PROBLEM-SOLVING SKILLS STANDARD 4.0 DEMONSTRATE RESEARCH AND INVESTIGATIVE SKILLS STANDARD 7.0 UNDERSTAND THE ROLE OF LIVING ORGANISMS IN BIOSCIENCE RESEARCH	15-25%
Domain 4 Safety and Regulatory Procedures	STANDARD 1.0 MAINTAIN A SAFE WORK ENVIRONMENT STANDARD 2.0 DEMONSTRATE STANDARD OPERATING PROCEDURES (SOPS) IN THE LABORATORY STANDARD 5.0 DEMONSTRATE ETHICAL AND LEGAL CONDUCT STANDARD 6.0 DEMONSTRATE QUALITY CONTROL PROCEDURES	10-15%

Content domains are bodies of knowledge, skills or abilities to be taught or assessed. They are clustered as related to technical standards for instruction. The suggested percentage of instructional time is listed for each domain. Instructional time corresponds to the percentage of assessment items included on the Technical Skills Assessment. Dec. 2016