

Biochemistry Program Learning Outcomes

1. Define the basic terminology, theories, and fundamental principles of different areas of biochemistry.
2. Illustrate the biochemical processes, molecular mechanisms, metabolic pathways, and the consequences of defects in these pathways.
3. Describe current biochemical and biotechnological trends, computational techniques, and various bioinformatics tools for data processing.
4. Employ laboratory experiments by using different techniques and methods in multiple fields of biochemistry.
5. Analyze information related to biochemistry from databases and other online resources.
6. Communicate effectively in both written and oral forms with peers and with the public.
7. Assess the biochemical calculations and data in different experiments.
8. Create solutions for various problems in biochemistry via critical thinking.
9. Demonstrate commitment to professional and academic values in accordance with the ethical standards in the field of biochemistry, cooperatively or independently.
10. Participate in leadership roles and high levels of responsibility in academic, scientific, and societal obligations.