

Program Learning Outcomes

Cell Biology

1. Describe the molecular and structural unity of life, explain how the diversity of living things is generated and perpetuated, and exemplify this diversity among and within life's three domains.
2. Demonstrate knowledge of how genetics, biochemistry and direct observation are used to elucidate cell organization and function.
3. Develop skill in applying quantitative methods to describe, evaluate and model biological processes.
4. Demonstrate the ability to design and execute collection, evaluation and interpretation of experimental data.
5. Demonstrate scientific literacy and skill in communication of scientific concepts, data, and interpretation using multiple formats appropriate for target audiences.
6. Develop a mechanistic understanding of how macromolecules, macromolecular assemblies and organelles govern the dynamic organization, behavior, function and developmental fate of living cells.