

Spokane Falls Community College
COURSE LEARNING OUTCOMES

Prefix and Course Number:	BIOL&222
Course Title:	Major Cell/Molecular Biology
Version Date: mm/dd/yyyy	1.14.21

Course Learning Outcomes

Upon successful completion of the course, the student will be able to:

1. Describe the structure and function of biological macromolecules
2. Describe the structure and function of cellular components, the cellular life cycle, and the roles of mitosis and meiosis.
3. Explain cellular mechanisms for harvesting, storing, and extracting energy through the processes of photosynthesis, cellular respiration, and fermentation
4. Explain the relationships between DNA, genes and proteins
5. Predict probabilistic genotypic and phenotypic outcomes of mating events for Mendelian and chromosomal inheritance
6. Compare and contrast viral, prokaryotic, and eukaryotic genetics and structural features
7. Describe scientific methods and biotechnological applications of molecular techniques