## Biology 103 Molecular Biology & Genetics

## **Student Learning Outcomes**

- 1. Students will be able to summarize the steps involved in gene expression in prokaryotic and eukaryotic organisms, and explain various methods by which cells regulate this expression.
- 2. Students will be able to explain several methods for purifying proteins, and to summarize the roles of antibody molecules in the body and in the lab.
- 3. Students will be able to explain basic methods in recombinant DNA technology, and to interpret data and solve problems involving those methods.
- 4. Students will be able to analyze data and solve genetics problems involving DNA polymorphisms, linkage mapping, and co-segregation of alleles within pedigrees.