ECOL 529 – Molecular Ecology Course Outcomes

By the end of the course, students will be expected to:

1. Evaluate and explain the main points of peer-reviewed articles in molecular ecology (articles that use population genetics, phylogenetics, and genomics to address questions in ecology, evolution, behaviour and conservation)

2. Communicate opinions on current topics in molecular ecology orally in small group discussions and presentations

3. Analyze patterns of DNA variation to test quantitative predictions from ecological and evolutionary theory

4. Critique molecular techniques used to characterize genetic variation in ecology and evolution

5. Develop and communicate the experimental design necessary to undertake a molecular ecology project of an applied or fundamental nature.